Canon

PowerShot SX210 IS

Camera User Guide

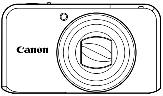


ENGLISH

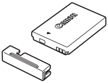
- Make sure you read this guide before using the camera.
- Store this guide safely so that you can use it in the future.

Checking the Package Contents

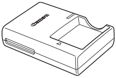
Check if the following items are included in your camera package. If anything is missing, contact the retailer from which you purchased the camera.



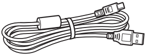
Camera



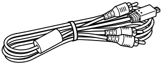
Battery Pack NB-5L (with Terminal Cover)



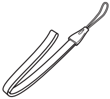
Battery Charger CB-2LX/CB-2LXE



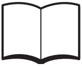
Interface Cable IFC-400PCU



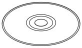
STEREO AV CABLE AVC-DC400ST



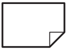
Wrist Strap WS-DC9



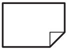
Getting Started



DIGITAL CAMERA Solution Disk



Warranty Card

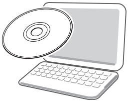


"Canon Customer Support" Leaflet

Using the PDF Manuals

Also refer to the PDF manuals on the CD-ROM. After installation, shortcut icons appear on the desktop. If the software installation fails, you can find the manuals in the Readme folder on the CD-ROM.

- **Camera User Guide (This Guide)**
  Once you have mastered the basics, use the camera's many features to shoot more challenging photos.
- **Personal Printing Guide**
  Read when you want to connect the camera to a printer (sold separately) and print.
- **Software Guide**
  Read when you want to use the included software.



- A memory card is not included.
- Adobe Reader is required to view the PDF manuals.

Read This First

Test Shots

Take some initial test shots and play them back to make sure the images were recorded correctly. Please note that Canon Inc., its subsidiaries and affiliates, and its distributors are not liable for any consequential damages arising from any malfunction of a camera or accessory, including memory cards, that results in the failure of an image to be recorded or to be recorded in a way that is machine readable.

Warning Against Copyright Infringement

The images recorded with this camera are intended for personal use. Do not record images that infringe upon copyright laws without the prior permission of the copyright holder. Please be advised that in certain cases the copying of images from performances, exhibitions, or commercial properties by means of a camera or other device may contravene copyright or other legal rights even if the image was shot for personal use.

Warranty Limitations

This camera's warranty is only effective in the country of sale. If there is a problem with the camera while abroad, please return it to the country of sale before proceeding with a warranty claim to a Canon Customer Support Help Desk. For Canon Customer Support contacts, please see the customer support list supplied with your camera.

LCD Monitor

- The LCD monitor is made from reinforced glass, but it may break if subjected to severe impacts. Please read the Safety Precautions (p. 9) carefully. In case the glass breaks, exercise adequate caution so as not to injure yourself on any broken fragments.
- The LCD monitor is produced with extremely high-precision manufacturing techniques. More than 99.99% of the pixels operate to specification, but occasionally non-performing pixels may appear as bright or dark dots. This is not a malfunction. and has no effect on the recorded image.
- The LCD monitor may be covered with a thin plastic film for protection against scratches during shipment. If so, remove the film before using the camera.

Camera Body Temperature

Please take care when operating the camera for an extended period as the camera body may become warm. This is not a malfunction.

What Do You Want to Do?

Shoot

Take good people shots

Shoot various other scenes

View

Shoot/View Movies

Print images

Save

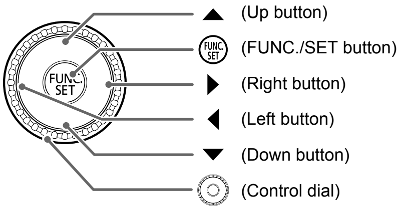
Other

Table of Contents

Chapters 1 – 3 explain the basic operations and frequently used functions of this camera. Chapters 4 onward explain the advanced functions, letting you learn more as you read each chapter.

Conventions Used in This Guide

- Icons are used in the text to represent the camera buttons and control dial.
- Language that displays on the screen appears inside [ ] (square brackets).
- The directional buttons, control dial, and FUNC./SET button are represented by the following icons.



- : Things you should be careful about.
- : Troubleshooting tips.
- : Hints for getting more out of your camera.
- : Supplemental information.
- (p. xx): Reference pages. “xx” stands for a page number.
- This guide assumes all functions are at their default settings.
- The various types of memory cards that can be used in this camera are collectively referred to as memory cards in this guide.

Safety Precautions

- Before using the camera, please ensure that you read the safety precautions described below. Always ensure that the camera is operated correctly.
- The safety precautions noted on the following pages are intended to prevent injuries to yourself and other persons, or damage to the equipment.
- Be sure to also check the guides included with any separately sold accessories you use.

⚠ **Warning**	Denotes the possibility of serious injury or death.
⚠ **Caution**	Denotes the possibility of injury.
Caution	Denotes the possibility of damage to the equipment.

⚠ Warning

Camera

- **Do not trigger the flash in close proximity to people's eyes.**

The above could damage your eyesight. In particular, remain at least one meter (39 inches) away from infants when using the flash.

- **Store this equipment out of the reach of children and infants.**

Strap: Putting the strap around a child's neck could result in asphyxiation.
Memory card: Dangerous if swallowed. If this occurs, contact a doctor immediately.

- **Do not attempt to disassemble or alter any part of the equipment unless expressly indicated to do so in this guide.**
- **To avoid the risk of injury, do not touch the interior of the camera if it has been dropped or otherwise damaged.**
- **Stop operating the camera immediately if it emits smoke, a strange smell, or otherwise behaves abnormally.**
- **Do not use organic solvents such as alcohol, benzine, or thinner to clean the equipment.**
- **Do not allow liquids or foreign objects to enter the camera.**

The above could result in fire or electrical shock.
If liquid or foreign objects come into contact with the camera interior, immediately turn the camera power off and remove the battery.

- **Use only recommended power sources.**

Using other power sources could result in fire or electrical shock.

Battery and Battery Charger

- **Use only recommended batteries.**
- **Do not place the battery near or in direct flame.**
- **Do not let the battery come into contact with water (e.g. sea water) or other liquids.**
- **Do not attempt to disassemble, alter or apply heat to the battery.**

- **Avoid dropping or subjecting the batteries to severe impacts.**

The above may cause explosions or leaks, resulting in fire, injury and damage to the surroundings. In the event that a battery leaks and the eyes, mouth, skin or clothing contacts these substances, immediately flush with water and seek medical assistance. If the battery charger becomes wet, unplug it from the outlet and consult your camera distributor or the closest Canon Customer Support Help Desk.

- **Use only the specified battery charger to charge the battery.**
- **Unplug the power cord periodically and wipe away any dust and dirt that has collected on the plug, the exterior of the power outlet, and the surrounding area.**
- **Do not handle the power cord with wet hands.**
- **Do not use the equipment in a manner that exceeds the rated capacity of the electrical outlet or wiring accessories. Do not use if the power cord or plug are damaged, or not fully plugged into the outlet.**
- **Do not allow dirt or metal objects (such as pins or keys) to contact the charger terminals or plug.**

The above could result in fire or electrical shock.

Other Warnings

- **Do not play the supplied CD-ROM(s) in any CD player that does not support data CD-ROMs.**

It is possible to suffer hearing loss from listening with headphones to the loud sounds of a CD-ROM played on a music CD player. Additionally, playing the CD-ROM(s) in an audio CD player (music player) could damage the speakers.

Caution

- **Be careful not to bang the camera or subject it to strong impacts or shocks when hanging it by the strap.**
- **Be careful not to bump or push strongly on the lens.**

This could damage the camera or lead to injury.

- **Avoid using, placing or storing the camera in the following places.**
  - **Places subject to strong sunlight.**
  - **Places subject to temperatures above 40 °C (104 °F).**
  - **Humid or dusty areas.**

These could cause leakage, overheating or an explosion of the battery, resulting in electrical shock, fire, burns or other injuries. High temperatures may also cause deformation of the casing.

- **The slideshow transition effects may cause discomfort when viewed for prolonged periods.**

- **When using the flash, be careful not to cover it with your fingers or clothing.**

This could result in burns or damage to the flash.

Caution

- **Do not aim the camera at bright light sources (the sun, etc.).**

Doing so may cause malfunctions or damage the image sensor.

- **When using the camera on a beach or at a windy location, be careful not to allow dust or sand to enter the camera.**

This may cause the camera to malfunction.

- **In regular use, small amounts of smoke may be emitted from the flash.**

This is due to the high intensity of the flash burning dust and foreign materials stuck to the front of the unit. Please use a cotton swab to remove dirt, dust or other foreign matter from the flash to prevent heat build-up and damage to the unit.

- **Unplug the battery charger from the power outlet after recharging is complete, or when you are not using it.**
- **Do not place anything, such as cloth on top of the battery charger while it is charging.**

Leaving the unit plugged in for a long period of time may cause it to overheat and distort, resulting in fire.

- **Remove and store the battery when you are not using the camera.**

If the battery is left inside the camera, damage caused by leakage may occur.

- **Before you discard batteries, cover the terminals with tape or other insulators.**

Contacting other metal materials in waste containers may lead to fire or explosions.

- **Do not place the battery near pets.**

Pets biting the battery could cause leakage, overheating or explosion, resulting in fire or injuries.

- **Do not sit down with the camera in your pocket.**

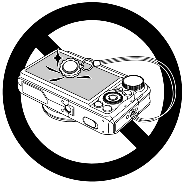
Doing so may cause malfunctions or damage the screen.

- **When putting the camera in your bag, ensure that hard objects do not come into contact with the screen.**
- **Do not attach accessories to the strap.**

Doing so may cause malfunctions or damage the screen.







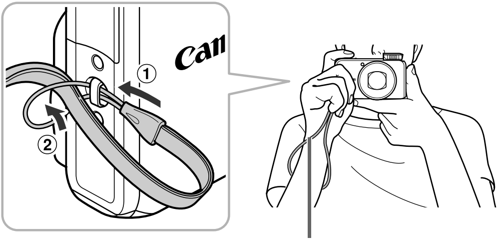
1

Getting Started

This chapter explains preparations before shooting, how to shoot in AUTO mode, and then how to view and erase the images you take. The latter part of this chapter explains how to shoot and view images in Easy Mode, how to shoot and view movies and how to transfer images to a computer.

Attaching the Strap/Holding the Camera

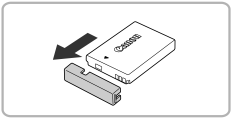
- Be sure to attach the supplied strap to the camera and wrap it around your wrist when shooting to avoid dropping the camera.
- Keep your arms tight against your body while holding the camera firmly by the sides. Be sure that your fingers do not block the flash.



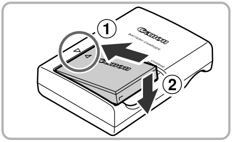
Strap

Charging the Battery

Use the included charger to charge the battery. Be sure to charge the battery as it is not charged at the time of purchase.

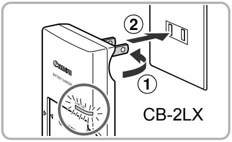


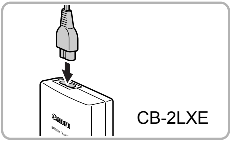
1 Remove the cover.



2 Insert the battery.

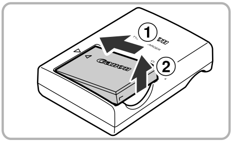
- Align the ▲ marks on the battery and charger, then insert the battery by sliding it in ① and down ②.





3 Charge the battery.

- **For CB-2LX:** Flip out the plug ① and plug the charger into a power outlet ②.
- **For CB-2LXE:** Plug the power cord into the charger, then plug the other end into a power outlet.
- The charge lamp lights red and charging starts.
- The charge lamp will light green when charging has finished. Charging takes approx. 2 hours and 5 minutes.



4 Remove the battery.

- Unplug the battery charger from the power outlet, then remove the battery by sliding it in ① and up ②.

> To protect the battery and prolong its life, do not charge it for longer than 24 hours continuously.

Approximate Number of Shots That Can Be Taken

Number of Shots	260
Playback Time (Hours)	6

- The number of shots that can be taken is based on the Camera & Imaging Products Association (CIPA) measurement standard.
- Under some shooting conditions, the number of shots that can be taken may be less than mentioned above.

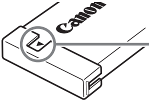
Battery Charge Indicator

An icon or message will appear on the screen indicating the battery's charge state.

Display	Summary
	Sufficient charge.
	Slightly depleted, but sufficient.
(Blinking red)	Nearly depleted. Charge the battery.
"Change the battery pack."	Depleted. Recharge the battery.

Using the battery and charger effectively

- Charge the battery on the day, or the day before, it will be used.
  Charged batteries continue to discharge naturally even if they are not used.



Attach the cover to a charged battery so that the ▲ mark is visible.

- How to store the battery for long periods:
  Deplete and remove the battery from the camera. Attach the terminal cover and store the battery. Storing a battery for long periods of time (about a year) without depleting it may shorten its life span or affect its performance.
- The battery charger can also be used when abroad.
  The charger can be used in regions that have 100 – 240 V (50/60 Hz) AC power. If the plug does not fit the outlet, use a commercially available plug adapter. Do not use electrical transformers for foreign travel as they will cause damage.
- The battery may develop a bulge.
  This is a normal characteristic of the battery and does not indicate a problem. However, if the battery bulges to the point where it will no longer fit into the camera, please contact a Canon Customer Support Help Desk.
- If the battery is quickly depleted even after charging,
  it has reached the end of its life span. Purchase a new battery.

Compatible Memory Cards (Sold Separately)

- SD memory cards (2 GB and less)*
- SDHC memory cards (more than 2 GB, up to and including 32 GB)*
- SDXC memory cards (more than 32 GB)*
- MultiMediaCards
- MMCplus memory cards
- HC MMCplus memory cards
- Eye-Fi Cards

* This memory card complies with the SD standards. Some cards may not operate properly depending on the brand of card used.

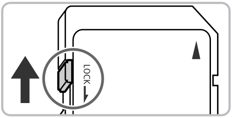
Depending on your computer's OS version, SDXC memory cards may not be recognized when using a commercially available card reader. Check to make sure that your OS supports this function beforehand.

About Eye-Fi Cards

This product is not guaranteed to support Eye-Fi card functions (including wireless transfer). In case of an issue with an Eye-Fi card, please check with the card manufacturer.
Also note that an approval is required to use Eye-Fi cards in many countries or regions. Without approval, use of the card is not permitted. If it is unclear whether the card has been approved for use in the area, please check with the card manufacturer.

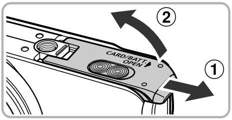
Inserting the Battery and Memory Card

Insert the included battery and a memory card (sold separately).



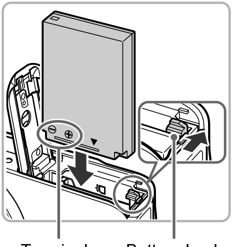
1 Check the card's write-protect tab.

- If the memory card has a write-protect tab, you will not be able to record images if the tab is in the locked position. Slide the tab up until you hear a click.



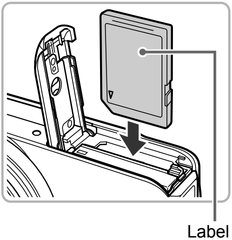
2 Open the cover.

- Slide the cover ① and open it ②.



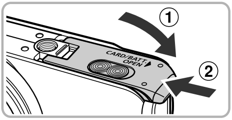
3 Insert the battery.

- Press the battery lock in the direction of the arrow, then insert the battery as shown until it locks into place with a click.
- Be sure to insert the battery in the correct direction or it will not properly lock into place.



4 Insert the memory card.

- Insert the memory card as shown until it locks into place with a click.
- Be sure the memory card is oriented correctly. Inserting the memory card in the wrong direction could damage the camera.



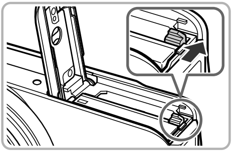
5 Close the cover.

- Close the cover ①, and press downward as you slide it until it clicks into place ②.

What if [Memory card locked] appears on the screen?

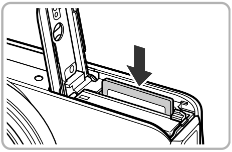
SD, SDHC and SDXC memory cards have a write-protect tab. If this tab is in the locked position, [Memory card locked] will appear on the screen and you will not be able to take or erase images.

Removing the Battery and Memory Card



Remove the battery.

- Open the cover and press the battery lock in the direction of the arrow.
- The battery will pop up.



Remove the memory card.

- Push the memory card in until you hear a click, then slowly release it.
- The memory card will pop up.

Approximate Number of Shots per Memory Card

Memory Card	4GB	16GB
Number of Shots	1058	4334

- Values are based on the default settings.
- The number of shots that can be taken will vary depending on camera settings, the subject and the memory card used.

Can you check the number of shots that can be taken?

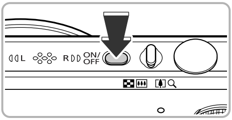
You can check the number of shots that can be taken when the camera is in a Shooting mode (p. 24).

Number of shots that can be taken



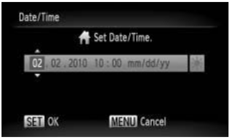
Setting the Date and Time

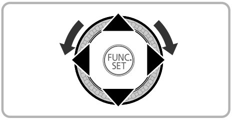
The Date/Time settings screen will appear the first time the camera is turned on. Since the dates and times recorded into your images are based on these settings, be sure to set them.



1 Turn on the camera.

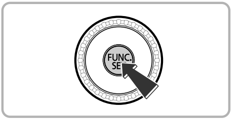
- Press the power button.
- The Date/Time screen will appear.





2 Set the date and time.

- Press the ◀▶ buttons to choose an option.
- Press the ▲▼ buttons or turn the dial to set a value.



3 Complete the setting.

- Press the FUNC./SET button.
- Once the date and time have been set, the Date/Time screen will close.
- Pressing the power button will turn off the camera.

Reappearing Date/Time screen

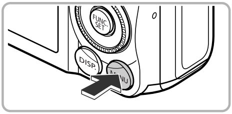
Set the correct date and time. If you have not set the date and time, the Date/Time screen will appear each time you turn on the camera.

Daylight saving time settings

If you choose ☀ in Step 2 and press the ▲▼ buttons or turn the dial to choose ☀, you will set the time to daylight saving (1 hour ahead).

Changing the Date and Time

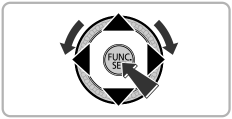
You can change the current date and time settings.



1 Display the menu.

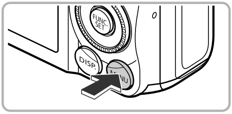
- Press the MENU button.





2 Choose [Date/Time] in the 🔧 tab.

- Press the ◀▶ buttons to choose the 🔧 tab.
- Press the ▲▼ buttons or turn the dial to choose [Date/Time], then press the FUNC./SET button.



3 Change the date and time.

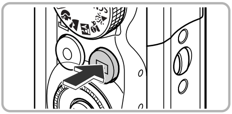
- Follow Steps 2 and 3 on p. 19 to adjust the setting.
- Pressing the MENU button will close the menu.

Date/Time battery

- The camera has a built-in date/time battery (backup battery) that allows the date/time settings to be retained for about three weeks after the battery pack has been removed.
- By inserting a charged battery or connecting an AC adapter kit (sold separately, p. 39) the date/time battery can be charged in about 4 hours even if the camera is not turned on.
- If the date/time battery is depleted, the Date/Time menu will appear when you turn the camera on. Follow the steps on p. 19 to set the date and time.

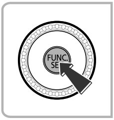
Setting the Display Language

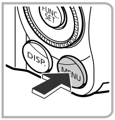
You can change the language that displays on the screen.



1 Enter Playback mode.

- Press the ▶ button.

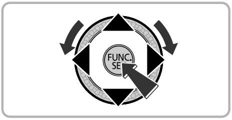




2 Display the settings screen.

- Press and hold the FUNC./SET button, then immediately press the MENU button.





3 Set the display language.

- Press the ▲▼◀▶ buttons or turn the dial to choose a language, then press the FUNC./SET button.
- Once the display language has been set, the settings screen will close.

What if the clock appears when the FUNC./SET button is pressed?

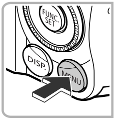
The clock will appear if too much time passes between pressing the FUNC./SET button and the MENU button in Step 2. If the clock appears, press the FUNC./SET button to remove the clock and repeat Step 2.

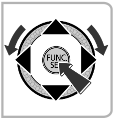
You can also change the display language by pressing the MENU button, choosing the 𝐘𝐓 tab, and choosing the [Language] menu item.

Formatting Memory Cards

Before you use a new memory card or one that has been formatted in other devices, you should format the card with this camera.
Formatting (initializing) a memory card erases all data on the memory card. As you cannot retrieve the erased data, exercise adequate caution before formatting the memory card.
Before formatting an Eye-Fi card, be sure to install the software contained on the card to a computer.





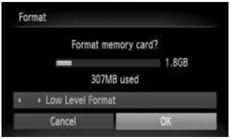


1 Display the menu.

- Press the MENU button.

2 Choose [Format].

- Press the ◀▶ buttons to choose the 🔧 tab.
- Press the ▲▼ buttons or turn the dial to choose [Format], then press the FUNC./SET button.





3 Format the memory card.

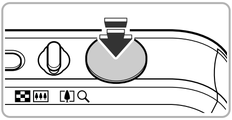
- Press the ◀▶ buttons or turn the dial to choose [OK] and press the FUNC./SET button.
- A confirmation screen will appear.
- Press the ▲▼ buttons or turn the dial to choose [OK], then press the FUNC./SET button.
- The memory card will be formatted.
- When formatting ends, [Memory card formatting complete] will appear on the screen.
- Press the FUNC./SET button.

Formatting or erasing data on a memory card merely changes the file management information on the card and does not ensure its contents are completely erased. Be careful when transferring or disposing of a memory card. When disposing of a memory card, take precautions such as physically destroying the card to prevent personal information leaks.

The total capacity of the memory card displayed in the formatting screen may be less than indicated on the memory card.

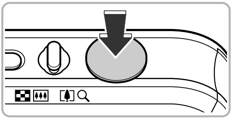
Pressing the Shutter Button

To take images that are in focus, be sure to first press the shutter button lightly (halfway) to focus, then press fully to shoot.



1 Press halfway (lightly to focus).

- Press lightly until the camera beeps twice and AF frames appear where the camera focused.



2 Press fully (all the way to shoot).

- The camera plays the shutter sound and takes the shot.
- Since the shot is being taken while the shutter sound plays, be careful not to move the camera.

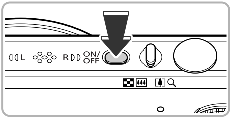
Does the length of the shutter sound change?

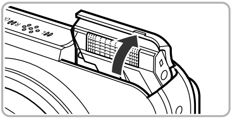
- Since the time required to shoot differs according to the scene you want to take, the length of the shutter sound may change.
- If the camera or subject moves while the shutter sound is playing, the recorded image may be blurry.

If you shoot without pressing the shutter button halfway, the image may not be in focus.

Taking Pictures (Smart Auto)

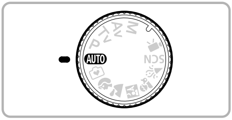
Since the camera can determine the subject and shooting conditions, you can let it automatically select the best settings for the scene and just shoot. The camera can also detect and focus on faces, setting the color and brightness to optimal levels.





1 Turn on the camera.

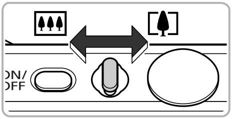
- Press the power button.
- The start-up screen will appear.
- The flash will automatically rise.
- You can also raise or lower the flash manually (the flash turns off when lowered).





2 Choose AUTO mode.

- Set the mode dial to AUTO.
- When you point the camera toward the subject, the camera will make a slight noise as it determines the scene.
- The icon for the determined scene will appear in the upper right of the screen.
- The camera will focus on detected faces and display frames on them.
- Black bars will appear on the left and right sides of the screen. There areas cannot be recorded when shooting.

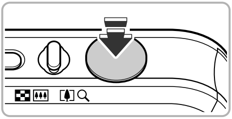


Focus Range (Approx.)
Zoom Bar



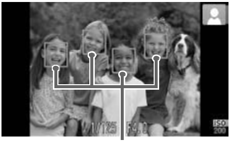
3 Compose the shot.

- Moving the zoom lever toward [telephoto] will zoom in on your subject, making it appear larger. Moving the lever toward [wide] will zoom out from your subject, making it appear smaller. The zoom bar appears.
- If you move the zoom lever all the way to the left or right the size will change quickly, and if you move it slightly, the size will change slowly (except for movies).



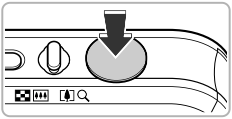
4 Focus.

- Press the shutter button halfway to focus.



AF Frames

- When the camera focuses, it will beep twice and AF frames will appear where the camera focused.
  Several AF frames will appear when the camera focuses on more than one point.



5 Shoot.

- Press the shutter button fully.
- The camera will play the shutter sound and shoot. The flash will automatically fire in low light conditions if it is raised.
- The image will appear on the screen for about two seconds.
- You can take a second picture even while an image is displayed by pressing the shutter button again.

Scene Icons

The camera displays an icon for the scene it has determined and then automatically focuses and selects the optimum settings for subject brightness and color.

Subject \ Background		Bright	Bright: Backlit	Including Blue Skies	Including Blue Skies: Backlit	Sunsets	Dark	Dark: When Using Tripod
People						—		*
	When Moving					—	—	—
Non-Human Subjects/ Landscapes								*
Close Subjects						—		—
Icon Background Color		Gray		Light Blue		Orange	Dark Blue	

* Appears when the camera is attached to a tripod.

Under certain conditions, the icon that appears may not match the actual scene. Especially when there is an orange or blue colored background (a wall for example), [ ] or the "Including Blue Skies" icons may appear and it may not be possible to shoot with the appropriate color. If this happens, try shooting in **P** mode (p. 70).

What if...

- **What if white and gray frames appear when you point the camera toward a subject?**
  When faces are detected, a white frame appears on the face of the main subject, while gray frames appear on other detected faces. The frames will follow the subjects within a certain range. If the main subject moves, however, the gray frames will disappear.
- **What if a blue frame appears when you press the shutter button halfway?**
  A blue frame appears when a moving subject is detected; the focus and exposure will continuously adjust (Servo AF).
- **What if the indicator blinks orange and blinks on the screen?**
  Attach the camera to a tripod so that the camera does not move and blur the image.
- **What if the camera does not play any sounds?**
  Pressing the DISP. button while turning on the camera power will turn off all sounds except for warning sounds. To turn the sounds on, press the MENU button, choose the [ ] tab, and then choose [Mute]. Press the [ ] buttons to choose [Off].
- **What if the indicator blinks orange, and [Raise the flash] appears on the screen?**
  Try raising the flash manually to shoot. The flash will automatically fire when shooting.
- **What if the image comes out dark even if the flash fired when shooting?**
  The subject is too far away for the flash to reach. Move the zoom lever toward [ ] and hold it until the lens stops moving. The camera will be at its maximum wide angle setting and you can shoot within the effective flash range of approximately 75 cm – 3.5 m (2.5 – 11.5 ft.). Move the zoom lever toward [ ] and hold it until the lens stops moving. The camera will be at its maximum telephoto setting and you can shoot within the effective flash range of approximately 1.0 – 2.0 m (3.3 – 6.6 ft.).
- **What if the camera beeps once when the shutter button is pressed halfway?**
  Your subject may be too close. Move the zoom lever toward [ ] and hold it until the lens stops moving. The camera will be at its maximum wide angle setting and you will be able to focus on subjects that are about 5 cm (2.0 in.) or more away from the end of the lens. Move the zoom lever toward [ ] and hold it until the lens stops moving. The camera will be at its maximum telephoto setting and you will be able to focus on subjects that are about 1 m (3.3 ft.) or more away from the end of the lens.

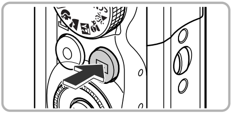
- **What if the lamp lights when the shutter button is pressed halfway?**
  To reduce red-eye and to assist in focusing, the lamp may light when shooting in dark areas.
- **What if the ⚡ icon blinks when you try to shoot?**
  The flash is charging. You can shoot when recharging ends.

What if two gray lines appear on the screen?

The area between the two gray lines will be recorded in a movie. Movies can be shot simply by pressing the movie button, no matter what position the mode dial is in (p. 31).

Viewing Images

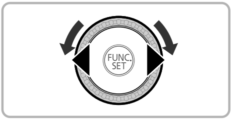
You can view the images you have taken on the screen.



1 Enter Playback mode.

- Press the ▶ button.
- The last image you took will appear.





2 Choose an image.

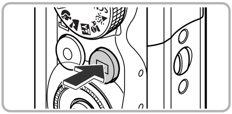
- Pressing ◀ or turning the dial counterclockwise will cycle through the images in the reverse order they were taken, from the newest image to the oldest.
- Pressing ▶ or turning the dial clockwise will cycle through images in the order they were taken, from oldest to newest.
- The images change more quickly if you keep the ◀▶ buttons pressed.
- The lens will retract after approximately 1 minute elapses.
- When the lens is retracted, pressing the ▶ button once more will turn off the power.

Switching to Shooting mode

Pressing the shutter button halfway, or turning the mode dial in Playback mode switches the camera to Shooting mode.

Erasing Images

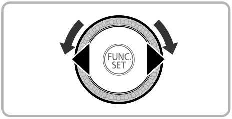
You can choose and erase images one at a time. Please note that erased images cannot be recovered. Exercise adequate caution before erasing an image.



1 Enter Playback mode.

- Press the ▶ button.
- The last image you took will appear.

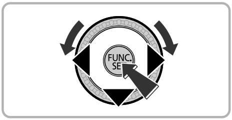




2 Choose an image to erase.

- Press the ◀▶ buttons or turn the dial to choose an image.



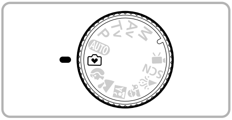


3 Erasing Images

- Press the ▼ button.
- [Erase?] appears.
- Press the ◀▶ buttons or turn the dial to choose [Erase], then press the FUNC/SET button.
- The displayed image will be erased.
- To exit instead of erasing, press the ◀▶ buttons or turn the dial to choose [Cancel], then press the FUNC/SET button.

Shooting in Easy mode

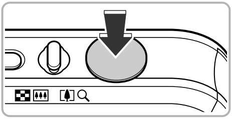
In Easy mode, operational instructions are displayed on the screen, and the camera is set so that only the buttons, the zoom lever and the movie button (p. 31) explained on this page are functional. This prevents incorrect operation of the camera, allowing even beginners to take worry-free pictures.

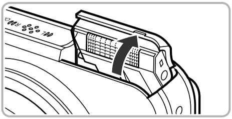




1 Enter ♥ mode.

- Set the mode dial to ♥.

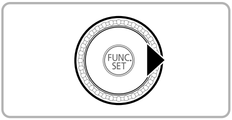




2 Shoot.

- Follow Steps 3 – 5 on pages 24 – 25 to shoot (no sound will play).
- If the indicator blinks orange and “Raise the flash” appears on the screen, try shooting with the flash. Try raising the flash manually to shoot. The flash will automatically fire when shooting.

Turning Off the Flash





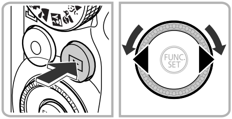
Press the ▶ button.

- The flash turns off and ⊘ appears.
- Pressing ▶ again displays ⚡A on the screen, and the flash will automatically fire in low light conditions.

Viewing or Erasing in Easy mode

In Easy mode, operational instructions are displayed on the screen, and the camera is set so that only the buttons explained on this page are functional. This prevents incorrect operation of the camera, allowing even beginners to view and erase images without worry.

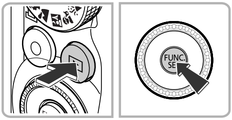
Viewing Single Images



Choose an image.

Press the ▶ button, then press the ◀▶ buttons or turn the dial to switch images.

Viewing Slideshows

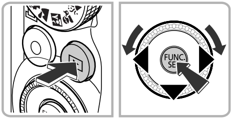


Start the slideshow.

Press the ▶ button, then press the FUNC./SET button, and all the shots you have taken will display for about 3 seconds each.

Press the FUNC./SET button again to stop the slideshow.

Erase the image.



1 Choose an image to erase.

Press the ▶ button, then press the ◀▶ buttons or turn the dial to display the image you want to erase.

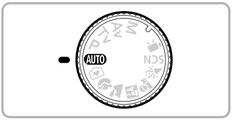
2 Erase the image.

Press the ▼ button, then press the ◀▶ buttons or turn the dial to choose [Erase] and press the FUNC./SET button.

The chosen image will be erased.

Shooting Movies

The camera can automatically select all settings so that you can shoot movies just by pressing the movie button. The audio will record in stereo.
If you continue shooting for a long time, the camera may become warm. This is not a malfunction.

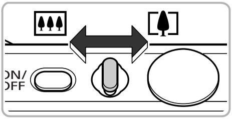


Shooting Time



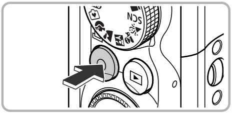
1 Choose AUTO mode.

- Set the mode dial to AUTO.



2 Compose the shot.

- Moving the zoom lever toward [ ] will zoom in on your subject, making it appear larger. Moving the lever toward [ ] will zoom out from your subject, making it appear smaller.

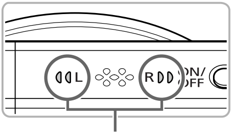


Elapsed Time

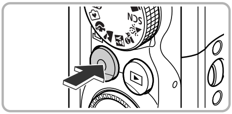


3 Shoot.

- Press the movie button.
- The camera will beep once, recording will start, and [● Rec] and the elapsed time will appear on the screen.
- Once shooting begins, take your finger off the movie button.
- If you change the composition of your shot during shooting, the focus, brightness and tone will automatically adjust.



- You can also zoom in and out with the zoom lever during shooting.
- Do not touch the microphone while shooting.
- Do not press any buttons other than the movie button while shooting. The sound the buttons make will be recorded in the movie.



4 Finish shooting.

- Press the movie button again.
- The camera will beep twice and stop shooting the movie.
- The movie will record to the memory card.
- Shooting will automatically stop when the memory card fills.

- When the mode dial is set to AUTO, the icon for the determined scene will appear (p. 25). However, "When Moving" icons will not appear even if people move. Different scene icons will appear. Under certain conditions, the icon that appears may not match the actual scene.
- If you change the composition while shooting so the optimum white balance is not possible, press the movie button, to stop recording, then start recording again.
- Movies can be shot by pressing the movie button even when the mode dial is in positions other than AUTO (p. 101).
- When the mode dial is set to movie mode, you can set each setting for shooting movies (p. 101).

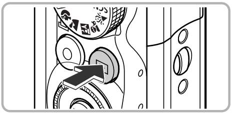
Estimated Shooting Times

Memory Card	4GB	16GB
Shooting Time	20 min. 43 sec.	1 hr. 24 min. 54 sec.

- Shooting times are based on default settings.
- Maximum clip length is approx. 29 min. 59 sec..
- Recording may stop even if the maximum clip length has not been reached on some memory cards. SD Speed Class 4 or higher memory cards are recommended.

Viewing Movies

You can view the movies you have shot on the screen.



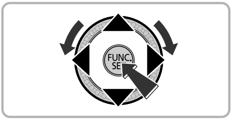
1 Enter Playback mode.

- Press the ▶ button.
- The last image you took will appear.
- SET 🎬 appears on movies.



2 Choose a movie.

- Press the ◀▶ buttons or turn the dial to choose a movie, then press the FUNC./SET button.







Movie Control Panel

3 Play the movie.

- Press the ▲▼ buttons or turn the dial to choose ▶, then press the FUNC./SET button again.
- The movie will play.
- If you press the FUNC./SET button again the movie will pause, and the movie control panel will appear. Press the ◀▶ buttons or turn the dial to choose ▶ (Play), then press the FUNC./SET button to resume playback.
- Press the ▲▼ buttons to adjust the volume.
- After the movie finishes, SET 🎬 appears.

What if you can't play back movies on a computer?

- Install the included software (p. 35).
- When watching a movie on a computer, frames may drop, it may not play smoothly, and the audio may stop suddenly depending on the computer's capabilities.
- If you use the supplied software to copy the movie back onto the memory card, you can play back the movie smoothly with the camera. For enhanced playback you can also connect the camera to a TV.

Transferring Images to a Computer for Viewing

You can use the included software to transfer images you have shot with the camera to a computer for viewing.
If you are already using ZoomBrowser EX/ImageBrowser, install the software from the included CD-ROM, overwriting your current installation.

System Requirements

Windows

OS	Windows 7 Windows Vista (including Service Pack 1 and 2) Windows XP Service Pack 2, Service Pack 3
Computer model	The above OS should be pre-installed on computers with built-in USB ports.
CPU	Viewing images Pentium 1.3GHz or higher Viewing movies Core2 Duo 1.66GHz or higher
RAM	Windows 7 (64bit): 2GB or more Windows 7 (32bit), Windows Vista: 1GB or more Windows XP: 512 MB or more (still images), 1 GB or more (movies)
Interface	USB
Free Hard Disk Space	ZoomBrowser EX: 200MB or more* PhotoStitch: 40MB or more
Display	1,024 x 768 pixels or higher

* For Windows XP, Microsoft .NET Framework 3.0 or later (max. 500MB) must be installed. Installation may take some time depending on your computer's capabilities.

Macintosh

OS	Mac OS X (v10.4 – v10.6)
Computer model	The above OS should be pre-installed on computers with built-in USB ports.
CPU	Viewing images PowerPC G4/G5 or Intel Processor Viewing movies Core Duo 1.66GHz or higher
RAM	Mac OS X v10.4 – v10.5: 512 MB or more (still images), 1 GB or more (movies) Mac OS X v10.6: 1 GB or more
Interface	USB
Free Hard Disk Space	ImageBrowser: 300 MB or more PhotoStitch: 50 MB or more
Display	1,024 x 768 pixels or higher

Preparations

Windows Vista and Mac OS X (v10.5) are used for these explanations.

1 Install the Software.

Windows



① Place the CD in the computer's CD-ROM drive.

- Place the supplied CD-ROM (DIGITAL CAMERA Solution Disk) (p. 2) into the computer's CD-ROM drive.

② Begin installation.

- Click [Easy Installation] and follow the on-screen instructions to proceed with the installation.
- If the [User Account Control] window appears, follow the on-screen instructions to proceed.



③ When the install finishes, click [Restart] or [Finish].

④ Remove the CD-ROM.

- Remove the CD-ROM when your desktop screen appears.

Macintosh

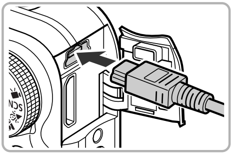


① Place the CD in the computer's CD-ROM drive.

- Place the supplied CD-ROM (DIGITAL CAMERA Solution Disk) (p. 2) into the computer's CD-ROM drive.

② Begin installation.

- Double-click the icon on the CD.
- Click [Install], and follow the on-screen instructions to proceed with the installation.



2 Connect the camera to the computer.

- Turn off the camera.
- Open the cover, and insert the cable's smaller plug firmly into the camera terminal in the direction shown.
- Insert the cable's larger plug into the computer. For connection details, refer to the user guide provided with the computer.

3 Turn on the camera.

- Press the ▶ button to turn on the camera.

4 Open CameraWindow.





Windows

- Click [Downloads Images From Canon Camera using Canon CameraWindow].
- CameraWindow will appear.
- If CameraWindow does not appear, click the [Start] menu and choose [AllPrograms], followed by [Canon Utilities], [CameraWindow], [CameraWindow] and [CameraWindow].

Macintosh

- CameraWindow will appear when you establish a connection between the camera and computer.
- If CameraWindow does not appear, click the CameraWindow icon on the Dock (the bar which appears at the bottom of the desktop).

For Windows 7, use the following steps to display CameraWindow.

- Click on the task bar.
- In the screen that appears, click the link to modify the program.
- Click [Downloads Images From Canon Camera using Canon CameraWindow], then click [OK].
- Double click .

Transfer and View Images

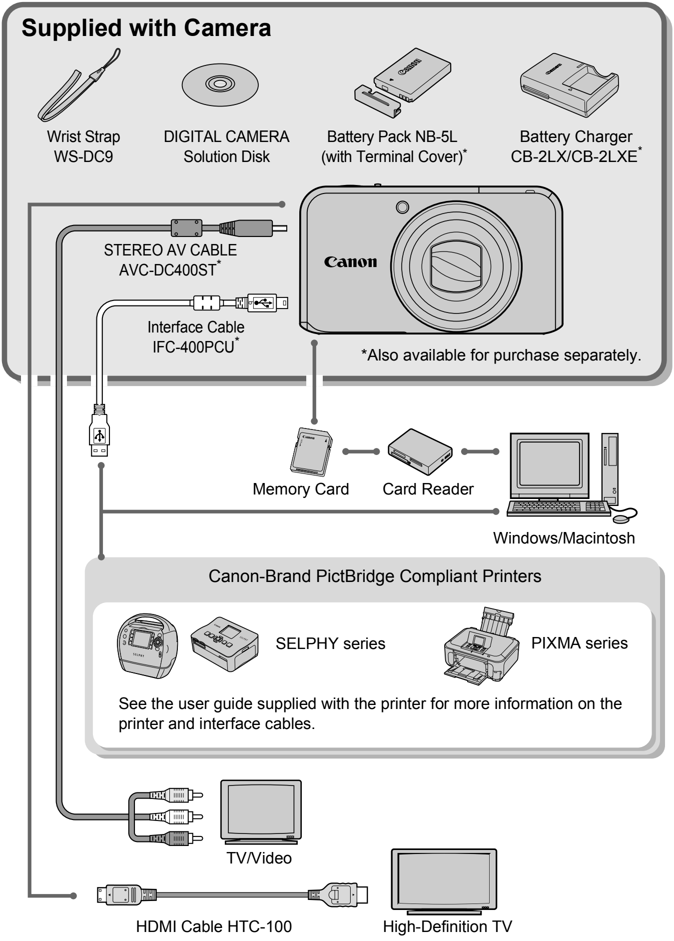


- Click [Import Images from Camera], and then click [Import Untransferred Images].
- All images not previously transferred will transfer to the computer. Transferred images will be sorted by date and saved in separate folders in the Pictures folder.
- When [Image import complete.] appears, click [OK]. Click [X] to close CameraWindow.
- Turn off the camera and unplug the cable.
- For details on how to view images using a computer, refer to the *Software Guide*.

You can transfer images without installing the included software by simply connecting your camera to a computer. There are, however, the following limitations.

- It may take a few minutes from when you connect the camera to the computer until you can transfer images.
- Movies will not transfer correctly.
- Images shot in the vertical position may be transferred in the horizontal position.
- Protection settings for images may be lost when transferred to a computer.
- There may be problems transferring images or image information correctly depending on the version of the operating system in use, the file size, or the software in use.

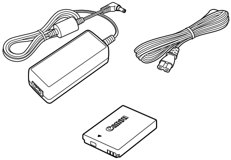
Accessories



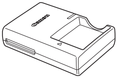
Separately Sold Accessories

The following camera accessories are sold separately. Some accessories are not sold in some regions,or may no longer be available.

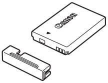
Power Supplies



AC Adapter Kit ACK-DC30
This kit lets you power the camera using household power. Recommended for powering the camera for an extended period of time or when connecting to a computer or printer. Cannot be used to charge the battery inside the camera.



Battery Charger CB-2LX/CB-2LXE
An adapter for charging Battery Pack NB-5L.



Battery Pack NB-5L
Rechargeable lithium-ion battery.

CAUTION

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.
DISPOSE OF USED BATTERIES ACCORDING TO LOCAL REGULATION.

Using Accessories Abroad

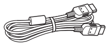
The battery charger and the AC adapter kit can be used in regions that have 100 - 240 V (50/60 Hz) AC power. If the plug does not fit the outlet, use a commercially available plug adapter. Do not use electrical transformers for foreign travel as they will cause damage.

Flash



High-Power Flash HF-DC1
This attachable supplementary flash can be used to capture photographic subjects that are too distant for the built-in flash to illuminate.

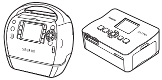
Other Accessories



HDMI Cable HTC-100

Use this cable to connect the camera to the HDMI™ terminal on a high-definition TV set.

Printers



SELPHY series



PIXMA series

Canon-Brand PictBridge Compliant Printers

By connecting your camera to one of the Canon-brand PictBridge compliant printers below, you can print your images without having to use a computer.

For more information, visit your nearest Canon retailer.

Use of genuine Canon accessories is recommended.

This product is designed to achieve excellent performance when used with genuine Canon accessories. Canon shall not be liable for any damage to this product and/or accidents such as fire, etc., caused by the malfunction of non-genuine Canon accessories (e.g., a leakage and/or explosion of a battery pack). Please note that this warranty does not apply to repairs arising out of the malfunction of non-genuine Canon accessories, although you may request such repairs on a chargeable basis.

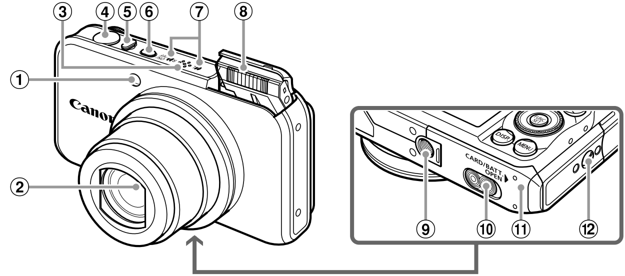
2

Learning More

This chapter explains the parts of the camera and what appears on the screen, as well as the basic operating instructions.



Components Guide



① Indicator (pp. 62, 68, 150)
② Lens
③ Speaker
④ Shutter Button (p. 23)
⑤ Zoom Lever
Shooting: [♠] (Telephoto) / [♠♠♠] (Wide Angle) (pp. 24, 31, 65)
Playback: Q (Magnify) / ▦ (Index) (pp. 110, 116)
⑥ Power Button (p. 19)
⑦ Microphone (p. 32)
⑧ Flash (pp. 24, 29, 64, 71)
⑨ Tripod Socket
⑩ DC Coupler Terminal Cover (p. 156)
⑪ Memory Card / Battery Cover (p. 17)
⑫ Strap Mount (p. 13)

Mode Dial

Use the mode dial to change the Shooting mode.

P, Tv, Av, M Mode

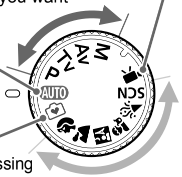
You can make settings such as the shutter speed and aperture value in order to take the kind of picture you want (pp. 70, 90, 91, 92).

Auto Mode

You can leave it to the camera to select settings (p. 24).

Easy Mode

You can shoot just by pressing the shutter button (p. 29).



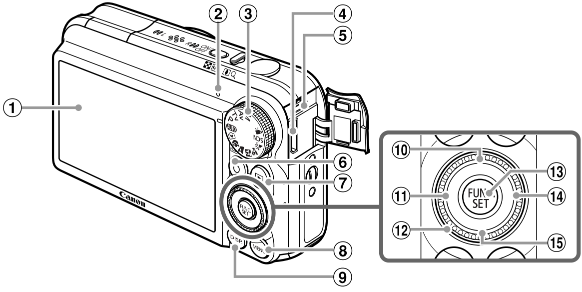
Movie Mode

For shooting movies (p. 102).
You can use the largest possible portion of the screen to shoot movies (p. 103). Even if the mode dial is set to a position other than Movie mode, movies can be shot by pressing the movie button (pp. 31, 101).

Scene Mode

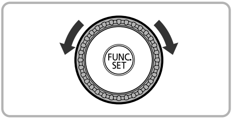
You can shoot with the best settings for the scene (p. 54) or choose settings yourself to take various types of pictures (p. 55).

If you turn the mode dial while in Playback mode, the camera will switch to Shooting mode.



① Screen (LCD Monitor) (pp. 44, 164, 165)
② Indicator (p. 45)
③ Mode Dial (p. 31)
④ HDMI Terminal (p. 118)
⑤ A/V OUT (Audio/Video Output) / DIGITAL Terminal (pp. 36, 117, 136)
⑥ Movie Button (pp. 31, 153) / (Direct Print) (pp. 137, 138)
⑦ (Playback) Button (pp. 27, 30, 33, 109)
⑧ MENU Button (p. 47)
⑨ DISP. (Display) Button (p. 44)
⑩ Exposure Compensation (p. 70) / ▲Button
⑪ (Macro) (p. 71) / MF (Manual Focus) (p. 87) / ◀ Button
⑫ Control Dial
⑬ FUNC./SET (Function/Set) button (p. 46)
⑭ (Flash) (pp. 64, 71, 89) / ▶ Button
⑮ (Self-Timer) (pp. 68, 78, 79) / (Single Image Erase) (pp. 28 ,30) / ▼ Button

Control Dial





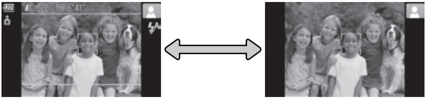
Turning the control dial allows you to perform operations such as choosing items or switching images. Except for a few operations, the same operations are possible with the ▲▼◀▶ buttons.
If you touch the control dial in shooting mode, a button description displays on the screen. When you switch to playback mode, hints and tips will display for a few seconds.

Screen Display

Switching the Display

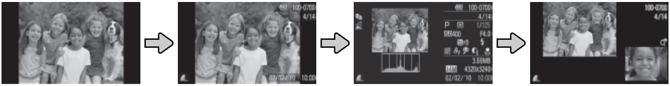
You can change the screen display using the DISP. button. Refer to pp. 164, 165 for details on information that appears on the screen.

Shooting



Information Display — No Information Display

Playback



No Information Display → Simple Information Display → Detailed Information Display → Focus Check Display (p. 115)

You can also switch the display by pressing the DISP. button while the image displays shortly after shooting. However, Simple Information Display is not available. You can change the display that appears first by pressing the MENU button to choose the 📷 tab, then setting [Review Info] (p. 151).

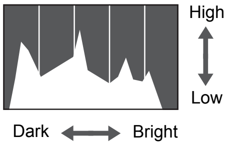
Screen Display in Dark Shooting Conditions

The display automatically brightens when shooting in dark conditions, allowing you to check the composition (Night Display function). However, the brightness of the image on the screen, and the brightness of the actual image recorded may be different. Screen noise may appear and the movement of the subject may appear somewhat jagged on the screen. This has no effect on the recorded image.

Overexposure Warning during Playback

In "Detailed Information Display" (pp. 44, 165), overexposed areas of the image flash on the screen.

Histogram during Playback



The graph that appears in "Detailed Information Display" (pp. 44, 165) is called the histogram. The histogram shows the distribution of brightness in an image horizontally, and the amount of brightness vertically. When the graph approaches the right side, the image is bright, but when it approaches the left side, the image is dark, and in this way you can judge the exposure.

Indicator

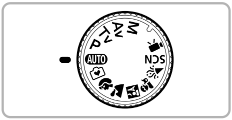
The indicator on the back of the camera (p. 43) will light or blink depending on the camera's status.

Colors	Status	Operation Status
Green	Lights	Shooting preparation complete/Display off (pp. 147, 153)
	Blinks	Recording/reading/transmitting image data
Orange	Lights	Shooting preparation complete (flash on)
	Blinks	Camera shake warning (pp. 26, 64)

When the indicator blinks green, data is being recorded to/read from the memory card or various information is being transmitted. Do not turn off the power, open the memory card slot/battery cover, shake or jolt the camera. These actions may corrupt the image data or cause the camera or memory card to malfunction.

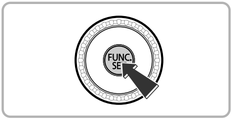
FUNC. Menu – Basic Operations

Commonly used shooting functions can be set with the FUNC. menu. The menu items and options differ depending on the mode (p. 166). You can also use the FUNC. menu in Playback mode.



1 Choose a shooting mode.

- Set the mode dial to the desired shooting mode.



2 Display the FUNC. menu.

- Press the FUNC./SET button.

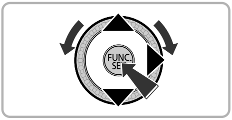


Available Options

Menu Items

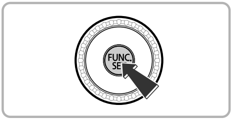
3 Choose a menu item.

- Press the ▲▼ buttons or turn the dial to choose a menu item, then press the FUNC./SET or ▶ buttons.
- Depending on the menu, the screen and menu items may switch.



4 Choose an option.

- Press the ▲▼ buttons or turn the dial to choose an option.
- You can also choose settings by pressing the DISP. button on options that display DISP. .
- To return to the menu, press the ◀ button.

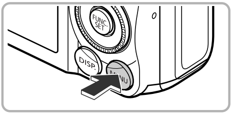


5 Complete the setting.

- Press the FUNC./SET button.
- The shooting screen will reappear and the setting you chose will display on the screen.

MENU – Basic Operations

Various functions can be set from the menus. The menu items are organized under tabs, such as for shooting (📷) and playback (▶). The available menu items differ depending on the mode (p. 168).



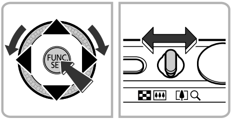
1 Display the menu.

- Press the MENU button.



2 Choose a tab.

- Press the ◀▶ buttons, or move the zoom lever (p. 42) left or right to choose a tab.



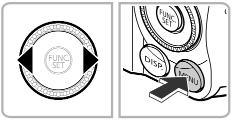
3 Choose a menu item.

- Press the ▲▼ buttons or turn the dial to choose a menu item.
- Some items require you to press the FUNC./SET button or ▶ button to display a submenu in which you change the setting.



4 Choose an option.

- Press the ◀▶ buttons to choose an option.



5 Complete the setting.

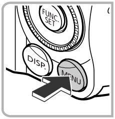
- Press the MENU button.
- The normal screen will reappear.

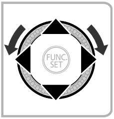
Changing the Sound Settings

You can silence or adjust the volume of camera sounds.

Muting Sounds







1 Display the menu.

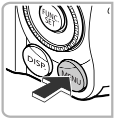
- Press the MENU button.

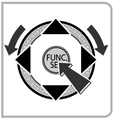
2 Choose [Mute].

- Press the ◀▶ buttons to choose the [tools tab] tab.
- Press the ▲▼ buttons or turn the [dial] dial to choose [Mute], then press the ◀▶ buttons to choose [On].
- Press the MENU button again to accept the setting.

Adjusting the Volume







1 Display the menu.

- Press the MENU button.

2 Choose [Volume].

- Press the ◀▶ buttons to choose the [tools tab] tab.
- Press the ▲▼ buttons or turn the [dial] dial to choose [Volume], then press the [FUNC./SET] button.

3 Change the volume.

- Press the ▲▼ buttons or turn the [dial] dial to choose an item, then press the ◀▶ buttons to adjust the volume.
- Pressing the MENU button twice will restore the normal screen.

Changing the Screen Brightness

The screen brightness can be changed in two ways.

Using the Menu

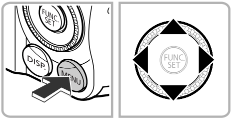


1 Display the menu.

- Press the MENU button.

2 Choose [LCD Brightness].

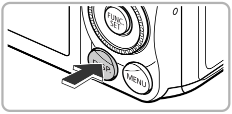
- Press the ◀▶ buttons to choose the ƒ† tab.
- Press the ▲▼ buttons or turn the ◎ dial to choose [LCD Brightness].



3 Change the brightness.

- Press the ◀▶ buttons to change the brightness.
- Pressing the MENU button twice will restore the normal screen.

Using the DISP. Button



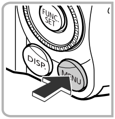
- Press the DISP. button for more than one second.
- The screen increases to maximum brightness regardless of the setting in the ƒ† tab.
- Pressing the DISP. button again for more than one second will return the screen to the original brightness.

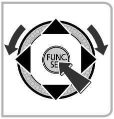
- The next time you turn on the camera, the screen will be at the brightness setting chosen in the ƒ† tab.
- When you have set the brightness to its highest setting in the ƒ† tab, you cannot change the brightness with the DISP. button.

Returning the Camera to Default Settings

When you have mistakenly changed a setting, you can reset the camera to the default settings.









1 Display the menu.

- Press the MENU button.

2 Choose [Reset All].

- Press the ◀▶ buttons to choose the 𝐘𝐓 tab.
- Press the ▲▼ buttons or turn the dial to choose [Reset All], then press the FUNC. SET button.

3 Reset the settings.

- Press the ◀▶ buttons or turn the dial to choose [OK] and press the FUNC. SET button.
- The camera will reset to the default settings.

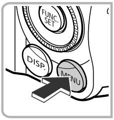
Are there functions that cannot be reset?

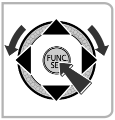
- The [Date/Time] (p. 20) in the 𝐘𝐓 tab, [Language] (p. 21), [Video System] (p. 117), [Time Zone] (p. 148), and the image registered in [Start-up Image] (p. 145).
- The saved data for custom white balance (p. 75).
- Colors that were chosen in Color Accent (p. 97) or Color Swap (p. 98).
- Scene modes set with SCN. (p. 55)

Low Level Memory Card Formatting

Perform low level formatting when you think that the recording/reading speed of a memory card has dropped. Performing a low-level format on (initializing) a memory card erases all data on the memory card. As you cannot retrieve the erased data, exercise adequate caution before performing a low-level format on the memory card.





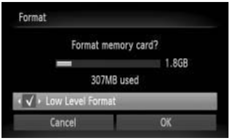


1 Display the menu.

- Press the MENU button.

2 Choose [Format].

- Press the ◀▶ buttons to choose the YT tab.
- Press the ▲▼ buttons or turn the ◎ dial to choose [Format], then press the FUNC./SET button.



3 Perform the low level format.

- Press the ▲▼ buttons or turn the ◎ dial to choose [Low Level Format], then press the ◀▶ buttons to display ✓.
- Press the ▲▼◀▶ buttons or turn the ◎ dial to choose [OK], then press the FUNC./SET button.
- ▶ A confirmation screen will appear.
- Press the ▲▼ buttons or turn the ◎ dial to choose [OK], then press the FUNC./SET button.
- ▶ When low level formatting ends, [Memory card formatting complete] will appear.
- Press the FUNC./SET button.

About low level formatting

When the [Memory card error] message appears, or when the camera does not work correctly, low level formatting the memory card may solve the problem. Copy the images from the memory card to a computer or other device before low level formatting.

- Low level formatting may take longer than standard formatting, since all recorded data are erased.
- You can stop a low level format of a memory card by choosing [Stop]. When stopping low level formatting, the data will be erased but the memory card can be used without problem.

Power Saving Function (Auto Power Down)

To save battery power, the camera shuts down automatically when it is not operated for a certain time.

Power Saving during Shooting

The screen will turn off approximately 1 minute after the camera is last operated. After about 2 more minutes, the lens will retract and the power will turn off. When the screen has turned off but the lens has not yet retracted, pressing the shutter button halfway (p. 23) turns on the screen and shooting can continue.

Power Saving during Playback

The power will turn off approximately 5 minutes after the camera is last operated.

- You can turn off the Power Saving Function (p. 147).
- You can adjust the time before the screen turns off (p. 147).

Clock Functions

You can check the current time.



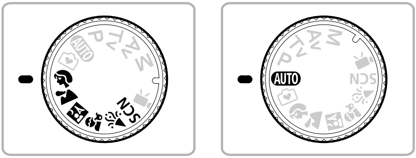
- Press and hold the FUNC/SET button.
- The current time appears.
- If you hold the camera vertically while using the clock function, it will switch to vertical display. Press the ◀▶ buttons or turn the dial to change the display color.
- Press the FUNC/SET button to cancel the clock display.

When the camera power is off, press and hold the FUNC/SET button, then press the power button to display the clock.

3

Shooting in Special Conditions and Commonly Used Functions

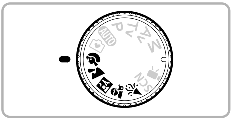
This chapter explains how to shoot in different conditions, as well as how to use common functions, such as the self-timer.



- When you choose a Shooting mode that matches a particular set of conditions, the camera will automatically select any necessary settings. All you need do is press the shutter button to take an optimized picture.
- This chapter assumes the mode dial is set to AUTO for the sections “Turning the Flash Off” (p. 64) to “Using the Self-Timer” (p. 68). When shooting in a mode other than AUTO, check which functions are available in that mode (pp. 166 – 168).

Shooting in Various Conditions

The camera will select the necessary settings for the conditions in which you wish to shoot when you choose the matching mode.



1 Choose a shooting mode.

- Set the mode dial to the desired Shooting mode.

2 Shoot.



Take portraits (Portrait)

- Produces a soft effect when photographing people.



Take landscapes (Landscape)

- Lets you shoot majestic landscapes with a real sense of depth.



Take snapshots at night (Night Snapshot)

- Lets you take beautiful snapshots of city nightscapes or people against night backgrounds.
- If you hold the camera firmly, you can take pictures with reduced camera shake, even without a tripod.



Take shots of kids and pets (Kids&Pets)

- Lets you capture subjects that move around, such as children and pets, without missing photo opportunities.



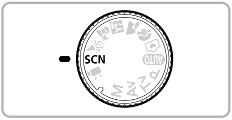
Take indoor shots (Indoor)

- Lets you shoot indoors with natural colors.

In , or mode, images may appear coarse because the ISO speed (p. 74) is increased to match the shooting conditions.

Shooting in Special Scenes

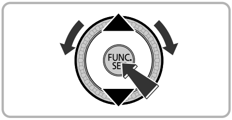
The camera will select the necessary settings for the conditions in which you wish to shoot when you choose the matching mode.



1 Enter SCN mode.

- Set the mode dial to SCN.





2 Choose a shooting mode.

- After pressing the FUNC./SET button, press the ▲▼ buttons or turn the dial to choose , then press the FUNC./SET button again.
- Press the ▲▼ or turn the dial to choose the desired mode, then press the FUNC./SET button.

3 Shoot.



Take shots in low light conditions (Low Light)

- Depending on the scene, the ISO speed will be set higher and the shutter speed faster than in AUTO mode so that you can shoot in dark places with reduced camera shake and subject blur.
- A recording pixel setting of M will display, and the image will be fixed at 2144 x 1608 pixels.



Take shots of people at the beach (Beach)

- Lets you take shots of brightly lit people on sandy beaches where the reflected sunlight is strong.



Take shots of foliage (Foliage)

- Lets you shoot trees and leaves, such as new growth, autumn leaves or blossoms, in vivid colors.



Take shots of people in snow (Snow)

- Lets you take bright, natural-colored shots of people against snowy backgrounds.



Take shots of fireworks (Fireworks)

- Lets you take shots of fireworks in vivid colors.

> In the fireworks mode, attach the camera to a tripod to prevent the camera from moving and blurring the image. Additionally, you should set [IS Mode] to [Off] (p. 152).

Modes for other scenes

In addition to the modes explained here, the following scene modes are also available.

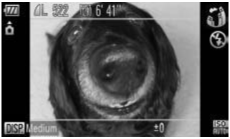
- Smart Shutter
  - Smile (p. 60)
  - Wink Self-Timer (p. 61)
  - Face Self-Timer (p. 62)
- Color Accent (p. 97)
- Color Swap (p. 98)
- Fish-eye Effect (p. 58)
- Miniature Effect (p. 59)
- Stitch Assist (p. 100)

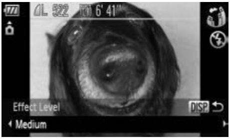
Adding Effects and Shooting

You can add various effects to images when shooting.

Shoot with the Effects of a Fish-Eye Lens (Fish-eye Effect)

Lets you shoot with the distorting effect of a fish-eye lens.





1 Choose .

- Follow Steps 1 – 2 on p. 55 to choose .

2 Choose an effect level.

- Press the DISP. button.
- [Effect Level] will appear on the screen.
- Press the ◀▶ buttons or turn the dial to choose an effect level, then press the DISP. button.
- You can check the effect on the screen.

3 Shoot.

Since you may not achieve the expected results depending on the shooting conditions, try taking some test shots first.

Take Shots That Look Like a Miniature Model (Miniature Effect)

Blurs chosen portions in the top and bottom of an image to produce the effect of a miniature model.

1 Choose .

- Follow Steps 1 – 2 on p. 55 to choose .





2 Choose the area to keep in focus.

- Press the DISP. button.
- A white frame (the area that will not be blurred) appears on the screen.
- Move the zoom lever to change the frame size, and press the ▲▼ buttons to change the frame position.
- Pressing the DISP. button restores the settings screen.

3 Shoot.

- Holding the camera vertically will change the orientation of the frame.
- Since you may not achieve the expected results depending on the shooting conditions, try taking some test shots first.

Detecting a Smile and Shooting

The camera will shoot, even without pressing the shutter button, when it detects a smile.



Choose ㋡.

- Follow Steps 1 – 2 on p. 55 to choose , then press the DISP. button.
- Press the ◀▶ buttons or turn the ◎ dial to choose ㋡ and press the DISP. button.
- The camera will enter shooting stand-by, and [Smile Detection on] will appear on the screen.
- Each time the camera detects a smile it will shoot after the lamp lights.
- Pressing the ▼ button will pause smile detection. Press the ▼ button again to resume smile detection.

What if a smile is not detected?

Smiles are easier to detect if the subject faces the camera, and opens their mouth enough to show some teeth when smiling.

Changing the number of shots

Press the DISP. button, then press the ▲▼ buttons to choose the number of shots. Press the DISP. button to change the setting.

- You should switch to another mode when you finish shooting, or the camera will continue taking shots each time the camera detects a smile.
- You can also shoot by pressing the shutter button.

Using the Wink Self-Timer

Point the camera at the subject and press the shutter button fully. The camera will shoot approximately two seconds after it detects a wink.

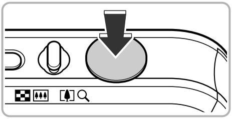


1 Choose .

- Follow Steps 1 – 2 on p. 55 to choose , then press the DISP. button.
- Press the ◀▶ buttons or turn the dial to choose , then press the FUNC. SET button.

2 Compose the shot and press the shutter button halfway.

- Confirm that a green frame appears around the face of the person who will wink.



3 Press the shutter button fully.

- The camera will enter shooting stand-by, and [Wink to take picture] will appear on the screen.



4 Face the camera and wink.

- The shutter will release approximately 2 seconds after a wink is detected from the person with a frame around the person's face.
- To cancel the countdown, press the ▼ button.

What if a wink is not detected?

- Wink a bit slowly.
- A wink may not be detected if eyes are covered by hair or a hat, or when wearing glasses.

Changing the number of shots

For the screen in Step 1, press the DISP. button, then press the ▲▼ buttons to change the number of shots. Press the DISP. button to accept the setting.

- Shutting both eyes will also be detected as a wink.
- If a wink is not detected, the shutter will release approximately 15 seconds later.
- If there are no people in the shot when the shutter button is pressed fully, the camera will shoot after a person enters the shot and winks.

Using the Face Self-Timer

To take a photo that includes the photographer, such a group photo, compose the shot, and press the shutter button. The camera will shoot two seconds after you enter the shot and it detects your face (p. 82).



1 Choose .

- Follow Steps 1 – 2 on p. 55 to choose , then press the DISP. button.
- Press the ◀▶ buttons or turn the dial to choose , then press the DISP. button.

2 Compose the shot and press the shutter button halfway.

- Make sure a green frame appears on the face focused on and white frames appear on other faces.

3 Press the shutter button fully.

- The camera will enter shooting stand-by, and [Look straight at camera to start count down] will appear on the screen.
- The lamp will blink and the self-timer sound will play.



4 Join the subjects and look at the camera.

- When the camera detects a new face, the lamp and sound will speed up (the lamp remains lit when the flash will fire), and two seconds later the shutter will release.
- To cancel shooting with the timer after countdown has started, press the ▼ button.

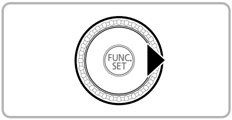
Changing the number of shots

For the screen in Step 1, press the DISP. button, then press the ▲▼ buttons to change the number of shots. Press the DISP. button to accept the setting.

Even if your face is not detected after joining the subjects, the shutter will release approximately 15 seconds later.

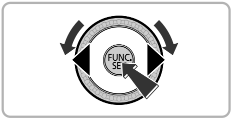
Turning the Flash Off

You can shoot with the flash turned off.



1 Press the ▶ button.





2 Choose ⊛.

- Press the ◀▶ buttons or turn the ◎ dial to choose ⊛, then press the (FUNC/SET) button.
- Once set, ⊛ will appear on the screen.
- Follow the steps above to return the setting to ⚡^{A}.

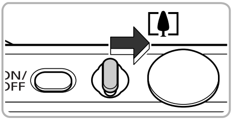
What if the indicator blinks orange and a flashing ◘ appears?

When you press the shutter button halfway in low light conditions where camera shake is likely, the indicator will blink orange and a flashing ◘ will appear on the screen. Attach the camera to a tripod to prevent it from moving.

⊛ will also appear if you manually lower the flash.

Zooming in More Closely on Subjects (Digital Zoom)

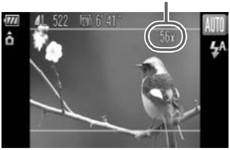
You can use the digital zoom to zoom up to a maximum of 56x and capture subjects that are too far away for the optical zoom to enlarge. The images may appear coarse, however, depending on the recording pixel setting (p. 72) and the zoom factor used.



1 Move the zoom lever toward [♠].

- Hold the lever until zooming stops.
- The zoom will stop when the largest possible zoom factor without image deterioration has been reached, and the zoom factor will appear.

Zoom Factor



2 Move it toward [♠] again.

- The digital zoom will zoom in even further on the subject.

What if the zoom factor appears in blue?

Images shot at zoom factors that appear in blue will be coarse.

Turning off the digital zoom

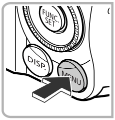
To turn off the digital zoom, press the MENU button, choose the 📷 tab, and choose [Digital Zoom] and the [Off] option.

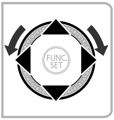
The equivalent focal length when using the optical zoom is 28 - 392 mm, and the equivalent focal length when using the digital zoom is 392 - 1568 mm (35mm film equivalent).

Digital Tele-Converter

The focal length of the lens can be increased by an equivalent of 1.7x or 2.1x. This enables a faster shutter speed and less chance of camera shake than the zoom (including digital zoom) used by itself at the same zoom factor. The images may appear coarse, however, depending on the combination of recording pixel (p. 72) and digital tele-converter settings used.







1 Choose [Digital Zoom].

- Press the MENU button.
- Press the ◀▶ buttons to choose the 📷 tab.
- Press the ▲▼ buttons or turn the ◎ dial to choose [Digital Zoom].

2 Make the setting.

- Press the ◀▶ buttons to choose a magnification.
- Pressing the MENU button will restore the shooting screen.
- The view will be enlarged and the zoom factor will appear on the screen.
- To return to standard digital zoom, choose [Digital Zoom] and the [Standard] option.

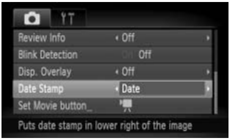
What if the zoom factor appears in blue?

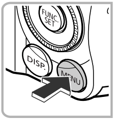
- Using [1.7x] at a recording pixel setting of L or M1 will cause image deterioration (the zoom factor will appear in blue).
- Using [2.1x] at a recording pixel setting of L, M1 or M2 will cause image deterioration (the zoom factor will appear in blue).

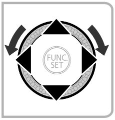
- The respective focal lengths when using [1.7x] and [2.1x] are 47.6 – 666.4 mm and 58.8 – 823.2 mm (35mm film equivalent).
- The digital tele-converter cannot be used together with the digital zoom.

Inserting the Date and Time

You can insert the shooting date and time in the lower right corner of an image. Once inserted, however, they cannot be deleted. Be sure to check beforehand that the date and time are correctly set (p. 19).







1 Choose [Date Stamp].

- Press the MENU button.
- Press the ◀▶ buttons to choose the 📷 tab.
- Press the ▲▼ buttons or turn the ◎ dial to choose [Date Stamp].

2 Make the setting.

- Press the ◀▶ buttons to choose [Date] or [Date & Time].
- Pressing the MENU button will restore the shooting screen.
- Once set, [DATE] will appear on the screen.



3 Shoot.

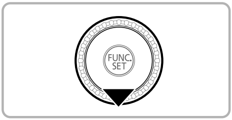
- The shooting date or time will be recorded in the image's lower right corner.
- To restore to the original setting, choose [Off] in Step 2.

You can insert and print the shooting date in images which do not have an embedded date and time as follows. However if you do this for images with an embedded date and time, the date and time will be printed twice.

- Use the DPOF print settings (p. 140) to print.
- Use the included software to print.
  Refer to the *Software Guide* for details.
- Print using printer functions.
  Refer to the *Personal Printing Guide* for details.

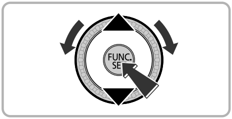
Using the Self-Timer

The self-timer can be used to shoot a group photo that includes the photographer. The camera will activate approximately 10 seconds after the shutter button is pressed.



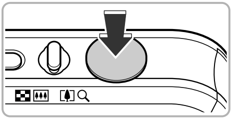
1 Press the ▼ button.

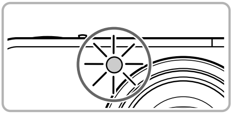




2 Choose [10-sec self-timer].

- Press the ▲▼ buttons or turn the [dial] dial to choose [10-sec self-timer], then press the [FUNC./SET] button.
- Once set, [10-sec self-timer] will appear.





3 Shoot.

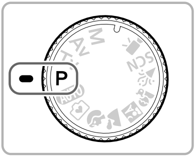
- Press the shutter button halfway to focus on the subject, then press it fully.
- When the self-timer starts, the lamp blinks and the self-timer sound plays.
- Two seconds before the shutter releases, the lamp and sound speed up (the lamp remains lit when the flash will fire).
- To cancel shooting with the timer after countdown has started, press the ▼ button.
- To restore to the original setting, choose [self-timer OFF] in Step 2.

You can change the delay time and number of shots (p. 79).

4

Choosing Settings Yourself

In this chapter you will learn how to use the various functions in **P** mode to progressively advance your shooting skills.



- This chapter assumes that the mode dial is set to **P**.
- **P** stands for Program AE.
- Before attempting to shoot using a function explained in this chapter in modes other than **P** mode, check if the function is available in those modes (pp. 166 – 169).

Shooting in Program AE

You can choose the settings for various functions to suit your preferences. AE stands for Auto Exposure.



1 Set the mode dial to P.

2 Adjust the settings according to your purposes (pp. 70 – 80).

3 Shoot.

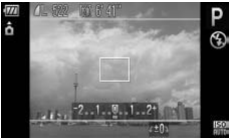
What if the shutter speed and aperture value appear in orange?

If a correct exposure cannot be obtained when pressing the shutter button halfway, the shutter speed and aperture value are shown in orange. Try the following settings to obtain the correct exposure.

- Turn on the flash (p. 71)
- Choose a higher ISO speed (p. 74)

Adjusting the Brightness (Exposure Compensation)

You can adjust the standard exposure set by the camera in 1/3-stop increments in the range of –2 to +2.



1 Enter Exposure Compensation mode.

- Press the ▲ button.

2 Adjust the brightness.

- While watching the screen, turn the dial to adjust the brightness and press the ▲ button.
- The exposure compensation amount will appear on the screen.

Turning the Flash On

You can make the flash fire every time you shoot. At maximum wide angle, the flash range is approximately 75 cm – 3.5 m (2.5 – 11.5 ft.), and at maximum telephoto, it is 1.0 – 2.0 m (3.3 – 6.6 ft.)



Choose ⚡.

- After pressing the ▶ button, press the ◀▶ buttons or turn the dial to choose ⚡, then press the FUNC. SET button.
- Once set, ⚡ will appear.

The setting screen does not appear even when you press ▶.

The flash is lowered. Raise the flash manually.

Changing the Focus Range (Macro)

When it is difficult to focus because your shot contains subjects that are both near and far, you can change the focus range (the distance range from your subject) to focus more reliably.



Choose 🌷.

- After pressing the ◀ button, press the ◀▶ buttons or turn the dial to choose 🌷, then press the FUNC. SET button.
- Once set, 🌷 will appear.

	Shooting Range	Description
🌷	5 – 50 cm (2.0 in. – 1.6 ft.)*	Only focuses on close subjects.

* When the zoom lever is moved toward [W] and held until the lens stops moving, which is the maximum wide angle setting of the lens.

The edges of the image may darken if the flash fires in macro shooting.

For macro shooting, 🌷 will turn gray in the area that displays in the yellow bar underneath the zoom bar, and the camera will not focus.

Changing the Recording Pixel Setting (Image Size)

You can choose from six recording pixels (image size) settings.



1 Choose the recording pixel setting.

- After pressing the FUNC./SET button, press the ▲▼ buttons or turn the dial to choose L, then press the FUNC./SET button.

2 Choose an option.

- Press the ▲▼ buttons or turn the dial to choose an option, then press the FUNC./SET button.
- The setting you chose will display on the screen.

- If you choose W you cannot use Digital Zoom (p. 65) or Digital Tele-Converter (p. 66).
- If you press the movie button, when the camera is set to W, the aspect ratio of the display will change and recording will begin (when set to 640 or 320 (p. 103)).

Changing the Compression Ratio (Image Quality)

You can choose from the following two levels of compression ratio (image quality): (Fine), (Normal).



1 Choose the compression ratio setting.

- After pressing the FUNC./SET button, press the ▲▼ buttons or turn the dial to choose , then press the FUNC./SET button.

2 Choose an option.

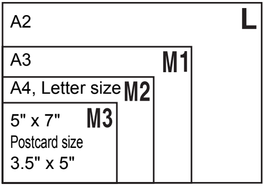
- Press the ▲▼ buttons or turn the dial to choose an option, then press the FUNC./SET button.
- The setting you chose will display on the screen.

Approximate Values for Recording Pixels and Compression Ratio

Recording Pixels	Compression Ratio	Single Image Data Size (Approx. KB)	Number of Recordable Images	
			4GB	16GB
L (Large) 14M/4320×3240	◢	3597	1058	4334
	▟	1719	2194	8985
M1 (Medium 1) 9M/3456×2592	◢	2302	1652	6769
	▟	1100	3352	13727
M2 (Medium 2) 5M/2592×1944	◢	1395	2681	10981
	▟	695	5247	21486
M3 (Medium 3) 2M/1600×1200	◢	558	6352	26010
	▟	278	12069	49420
S (Small) 0.3M/640×480	◢	150	20116	82367
	▟	84	30174	123550
W (Widescreen) 4320×2432	◢	2700	1403	5746
	▟	1291	2873	11766

- The values in the table are measured according to Canon standards and may change depending on the subject, memory card and camera settings.

Approximate Values for Paper Size



- S Suitable for sending images as e-mail attachments.
- W For printing on wide size paper.

Changing the ISO Speed



1 Choose the ISO speed.

- After pressing the FUNC./SET button, press the ▲▼ buttons or turn the dial to choose ISO AUTO, then press the FUNC./SET button.

2 Choose an option.

- Press the ▲▼ buttons or turn the dial to choose an option, then press the FUNC./SET button.
- The setting you chose will display on the screen.

ISO AUTO	Automatically adjusts the ISO speed to the Shooting mode and shooting conditions.	
ISO 80, ISO 100, ISO 200	Low	Fine weather conditions, outdoor shooting
ISO 400, ISO 800	↕	Cloudy, Twilight
ISO 1600	High	Nightscapes, Dark interiors

Changing the ISO speed

- Lowering the ISO speed results in sharper images, but there may be an increased chance of image blurring in certain shooting conditions.
- Raising the ISO speed results in a faster shutter speed, reducing camera shake and letting the flash reach greater distances to the subject. The images, however, will appear coarse.

- When the camera is set to ISO AUTO, you can press the shutter button halfway to display the automatically set ISO speed.
- In the Low Light mode (p. 56), ISO speeds will automatically be set higher than in AUTO mode, depending on the scene.

Adjusting the White Balance

The white balance (WB) function sets the optimal white balance for natural looking colors to match the shooting conditions.



1 Choose the white balance function.

- After pressing the FUNC. SET button, press the ▲▼ buttons or turn the dial to choose AWB, then press the FUNC. SET button.

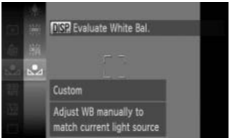
2 Choose an option.

- Press the ▲▼ buttons or turn the dial to choose an option, then press the FUNC. SET button.
- The setting you chose will display on the screen.

AWB	Auto	Automatically sets the optimal white balance for the shooting conditions.
☀	Day Light	Fine weather conditions, outdoor shooting
☁	Cloudy	Cloudy, shady, twilight conditions
💡	Tungsten	Tungsten, bulb-type (3-wavelength) fluorescent lighting
	Fluorescent	Warm-white fluorescent, cool-white fluorescent, warm-white-type (3-wavelength) fluorescent lighting
	Fluorescent H	Daylight fluorescent, daylight-type (3-wavelength) fluorescent lighting
	Manual	Manually sets a custom white balance.

Custom White Balance

You can adjust the white balance to the light source at the shooting location. Make sure that you set the white balance under the light source of the actual scene you will shoot.



- In Step 2 above, choose the Manual icon.
- Make sure the entire screen is filled with a plain, white colored subject, then press the DISP. button.
- The tint on the screen will change when a white balance data is set.

If you change camera settings after recording white balance data, the tone may not turn out properly.

Continuous Shooting

You can shoot continuously while the shutter button is pressed fully and held.



1 Choose a Drive mode.

- After pressing the FUNC./SET button, press the ▲▼ buttons or turn the dial to choose □, then press the FUNC./SET button.

2 Choose an option.

- Press the ▲▼ buttons or turn the dial to choose Continuous Shooting or AF Continuous Shooting, then press the FUNC./SET button.

3 Shoot.

- As long as you hold the shutter button down, the camera will shoot successive images.

Drive Mode		Description
Continuous Shooting	Approx. 0.7 images/sec., max.	The camera shoots continuously with the focus and exposure set when the shutter button is pressed halfway.
AF Continuous Shooting AF	Approx. 0.5 images/sec., max.	The camera shoots continuously and focuses. The [AF Frame] is set to [Center].
LV Continuous Shooting LV	Approx. 0.5 images/sec., max.	The camera shoots continuously with the focus fixed to the position set in manual focus.In (infinity mode), the focus is locked on the first shot.

- Cannot be used together with the self-timer (pp. 68, 78, 79).
- Continuous shooting speed increases in (low light) mode (p. 56).
- Depending on the shooting conditions and the camera settings, the shooting speed may slow down.
- As the number of images increases, the shooting interval may take longer.
- If the flash fires, the shooting interval may take longer.
- When in (infinity mode) (p. 56) or manual focus modes, AF will change to LV (p. 87).

Changing the Tone of an Image (My Colors)

You can change the tone of an image to sepia or black and white when shooting.



1 Choose My Colors.

- After pressing the FUNC./SET button, press the ▲▼ buttons or turn the dial to choose OFF, then press the FUNC./SET button.

2 Choose an option.

- Press the ▲▼ buttons or turn the dial to choose an option, then press the FUNC./SET button.
- The setting you chose will display on the screen.

OFF	My Colors Off	—
V	Vivid	Emphasizes the contrast and color saturation for a vivid impression.
N	Neutral	Tones down the contrast and color saturation for neutral hues.
Se	Sepia	Sepia tones.
BW	B/W	Black and white.
P	Positive Film	Combines the effects of Vivid Red, Vivid Green and Vivid Blue to produce intense natural appearing colors like those obtained with positive film.
L	Lighter Skin Tone	Makes skin tones lighter.
D	Darker Skin Tone	Makes skin tones darker.
B	Vivid Blue	Emphasizes blue tints. Makes the sky, ocean and other blue subjects more vivid.
G	Vivid Green	Emphasizes green tints. Makes mountains, foliage and other green subjects more vivid.
R	Vivid Red	Emphasizes red tints. Makes red subjects more vivid.
C	Custom Color	You can adjust contrast, sharpness, and color saturation etc. to your preference (p. 78).

- The white balance cannot be set in the Se and BW modes (p. 75).
- In L and D modes, colors other than people's skin color may change. You may not obtain the expected results with some skin colors.

Custom Color

The contrast, sharpness, color saturation, red, green, blue, and skin tones in an image can be chosen and set at 5 different levels.



- Follow Step 2 on p. 77 to choose A_C , then press the DISP. button.
- Press the ▲▼ buttons to choose an option, then press the ◀▶ buttons or turn the dial to choose a value.
- The more to the right, the stronger/deeper/darker (skin tone) the effect gets, the more to the left, the weaker/lighter/fairer (skin tone) the effect gets.
- Press the DISP. button to accept the setting.

Shooting Using the Two Second Self-Timer

The camera will shoot approximately two seconds after the shutter button is pressed, avoiding any camera shake that occurs when pressing the shutter button.



Choose ⏲2.

- After pressing the ▼ button, press the ▲▼ buttons or turn the dial to choose ⏲2, then press the FUNC./SET button.
- Once set, ⏲2 will appear on the screen.
- Follow Step 3 on p. 68 to shoot.

Customizing the Self-Timer

You can set the time delay (0 – 30 seconds) and the number of shots (1 – 10 shots).



1 Choose ⏲c.

- After pressing the ▼ button, press the ▲▼ buttons or turn the ◎ dial to choose ⏲c, then press the MENU button.



2 Make the setting.

- Press the ▲▼ buttons to choose [Delay] or [Shots].
- Press the ◀▶ buttons or turn the ◎ dial to choose a value, then press the FUNC./SET button.
- Follow Step 3 on p. 68 to shoot.

What if the number of shots is set to two or more shots?

- Exposure and white balance settings are set with the first shot.
- When you set the time delay for more than 2 seconds, the self-timer lamp and sound speed up 2 seconds before the shutter releases (when the flash will fire, the lamp lights).

- If the flash fires, the shooting interval may be longer.
- If you set a high number of shots, the shooting interval may be longer.
- If the memory card becomes full, shooting stops automatically.

Shooting Using a TV Monitor

You can use a TV to display the camera screen content while shooting.

- Connect the camera to a TV as described in "Viewing Images on a TV" (p. 117).
- Shooting procedures are the same as when using the camera screen.

TV display is not available when using HDMI Cable HTC-100 (sold separately) to connect the camera to a high-definition TV.

Changing the Composition with the Focus Lock

While you keep the shutter button pressed halfway, the focus and exposure are locked. You can now recompose and shoot. This is called Focus Lock.



1 Focus.

- Center the subject you want in focus, and press the shutter button halfway.
- Confirm that the AF Frame is green.



2 Recompose.

- Keep the shutter button pressed halfway and recompose the scene.

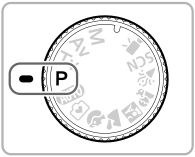
3 Shoot.

- Press the shutter button fully.

5

Getting More Out of Your Camera

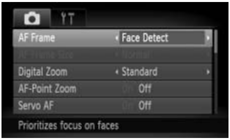
This chapter serves as the advanced version of Chapter 4 and explains how to take pictures using various functions.



- This chapter assumes that the mode dial is set to P.
- The sections “Setting the Shutter Speed” (p. 90), “Setting the Aperture Value” (p. 91), “Setting the Shutter Speed and Aperture Value” (p. 92), assume that the mode dial is set to these modes.
- The section “Adjusting the Flash Output” (p. 96) assumes that the mode dial is set to M.
- The sections “Changing the Color and Shooting” (p. 97) and “Shooting Stitch Assist Images” (p. 100) assume that the mode dial is set to SCN and chosen the corresponding mode.
- Before attempting to shoot using a function explained in this chapter in modes other than P mode, check if the function is available in those modes (pp. 166 – 169).

Changing the AF Frame Mode

You can change the AF (Auto Focus) frame mode to match the conditions you want to shoot.



Choose [AF Frame].

- Press the MENU button to choose the camera tab. Choose [AF Frame], then press the ◀▶ buttons to choose an option.

Face Detect

- Detects people's faces and sets the focus, exposure (evaluative metering only) and white balance (AWB only).
- When the camera is pointed at subjects, a white frame appears on the face the camera judges to be the main subject, and gray frames (max. 2) will appear on other faces.
- A frame will follow a detected face that is moving within a certain range.
- When the shutter button is pressed halfway, up to 9 green frames will appear on faces on which the camera focuses. If a face is not detected, the AF frame will appear in the center of the screen.

- If a face is not detected and only gray frames (no white frame) appear, AF Frame will be set to [Center].
- Examples of faces that cannot be detected:
  - Subjects that are far away or extremely close.
  - Subjects that are dark or light.
  - Faces turned to the side or at a diagonal, or faces with a portion hidden.
- The camera may mistakenly identify non-human subjects as a face.
- If the camera cannot focus when you press the shutter button halfway, the AF frame will not appear.

Center

The AF frame is locked to the center. This is effective for focusing on a specific point.

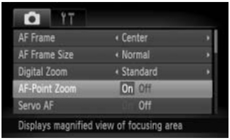
You can reduce the AF frame size

- Press the MENU button, choose the camera tab, then choose the [AF Frame Size] menu item and [Small] option.
- The setting is configured to [Normal] when the Digital Zoom (p. 65), Digital Tele-converter (p. 66) or Manual Focus (p. 87) is used.

If the camera cannot focus when you press the shutter button halfway, the AF frame will turn yellow and ! will appear.

Magnifying the Focal Point

If you press the shutter button halfway, the AF frame will magnify and you can check the focus.



1 Choose [AF-Point Zoom].

- Press the MENU button, choose the camera tab, and then choose the [AF-Point Zoom] menu item. Press the ◀▶ buttons to choose [On].



2 Check the focus.

- Press the shutter button halfway.
- In [Face Detect] (p. 82), the face detected as the main subject will appear magnified.
- In [Center] (p. 82), the contents of the center AF frame will appear magnified.

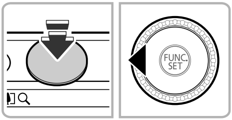
What if the display does not magnify?

The display will not appear magnified in [Face Detect] if a face cannot be detected or is too big in relation to the screen. In [Center], it will not appear magnified if the camera cannot focus.

The magnified display will not appear when using Digital Zoom (p. 65), Digital Tele-converter (p. 66), Servo AF (p. 84) or when connected to a TV (p. 80).

Shooting with the AF Lock

The focus can be locked. After locking the focus, the focal distance will not change even when you release your finger from the shutter button.



1 Lock the focus.

- Keep the shutter button pressed halfway and press the ◀ button.
- MF and the MF indicator appear. You can check the distance to the subject.
- After you release your finger from the shutter button, press the ◀ button again, then press the ◀▶ buttons or turn the dial and choose , the focus will unlock.

2 Compose the scene and shoot.

Shooting with Servo AF

While the shutter button is pressed halfway, the focus and exposure will continue to adjust, allowing you to take pictures of moving subjects without missing a shot.



1 Choose [Servo AF].

- Press the MENU button and choose [Servo AF] from the tab, and press the ◀▶ buttons to choose [On].

2 Focus.

- The focus and exposure will be maintained where the blue AF frame appears while you press the shutter button halfway.

- The camera may not be able to focus in some conditions.
- If a correct exposure cannot be obtained, the shutter speed and aperture value appear in orange. Release your finger from the shutter button, then press it again halfway.
- In low light conditions, AF frames may not turn blue even after pressing the shutter button halfway. In this case, focus and exposure are locked.
- The [AF-Point Zoom] option in the 📷 tab is not available in Servo AF mode.
- Not available when using Self-Timer (pp. 68, 78, 79).

Choosing the Person to Focus On (Face Select)

You can choose a specific person's face to focus on and then shoot.

1 Register [face icon] to the movie button (p. 153)



2 Enter Face Select mode.

- Point the camera toward the face of the subject and press the movie button.
- After [Face Select : On] appears, a face frame ⌜ ⌟ will appear around the face detected as the main subject.
- Even if the subject moves, the face frame ⌜ ⌟ will follow the subject within a certain range.
- If a face is not detected, ⌜ ⌟ will not appear.



3 Choose the face on which to focus.

- If you press the movie button, the face frame ⌜ ⌟ will move to another face detected by the camera.
- When the frame has made a full circuit of all detected faces, [Face Select: Off] will appear, and the AF frame mode screen will reappear.



4 Shoot.

- Press the shutter button halfway. The face frame of the chosen face will change into a green [ ].
- Press the shutter button fully to shoot.

Changing the Metering Method

You can change the metering method (brightness measuring function) to match the shooting conditions.



1 Choose the metering method.

- After pressing the (FUNC./SET) button, press the ▲▼ buttons or turn the (dial) dial to choose (Evaluative), then press the (FUNC./SET) button.

2 Choose an option.

- Press the ▲▼ buttons or turn the (dial) dial to choose an option, then press the (FUNC./SET) button.
- The setting will appear on the screen.

(Evaluative icon)	Evaluative	Suitable for standard shooting conditions, including back lit shots. Automatically adjusts the exposure to match the shooting conditions.
(Center Weighted Avg. icon)	Center Weighted Avg.	Averages the light metered from the entire frame, but gives greater weight to the center.
(Spot icon)	Spot	Only meters within the [ ] (Spot AE Point frame) that appears at the center of the screen.

Shooting in Manual Focus Mode

You can use manual focus when auto focus is not possible. If you press the shutter button halfway after roughly focusing manually, you can fine tune the focus.



1 Choose MF.

- Press the ◀ button, then press the ◀▶ buttons or turn the dial to choose MF, then press the FUNC. SET button.
- MF and the MF indicator appear.



2 Focus roughly.

- The side bar shows your focal point and a distance display. While looking at the magnified area, turn the dial to find an approximate focus.

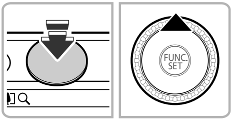
3 Fine tuning the focus.

- If you press the shutter button halfway, you can fine tune the focus (Safety MF).

- You cannot change the AF frame setting or size while focusing manually (pp. 82, 83). If you want to change the AF frame mode or size, cancel Manual focus mode first.
- In order to focus accurately, try attaching the camera to a tripod.
- When using the Digital Zoom (p. 65), Digital Tele-converter (p. 66), or when using a television as a display (p. 80), you will be able to focus but the magnified area will not display.
- If [MF-Point Zoom] is set to [Off] in the 📷 tab, the magnified display will not be available.
- If [Safety MF] is set to [Off] in the 📷 tab, you will not be able to fine tune the focus even if you press the shutter button.

Shooting with the AE Lock

You can lock the exposure and shoot, or set the focus and exposure separately to shoot.
AE stands for “Auto Exposure”



1 Lock the exposure.

- Point the camera toward the subject and press the ▲ button while pressing the shutter button halfway.
- When ✱ appears, the exposure will be set.
- If you release your finger from the shutter button and press the ▲ button, ✱ will disappear and the AE will unlock.

2 Compose the scene and shoot.

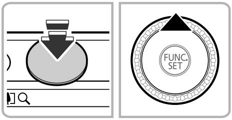
Program Shift

If you lock the exposure and turn the ◎ dial, you can change the shutter speed and aperture value combination.

Shooting with the FE Lock

Just as with the AE lock, you can lock the exposure for shooting with the flash.
FE stands for “Flash Exposure”.

1 Make sure the flash is raised and choose ⚡ (p. 71).



2 Lock the exposure.

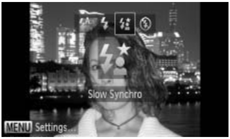
- Point the camera toward the subject and press the ▲ button while pressing the shutter button halfway.

- The flash will fire and when ✱ appears, the flash output will be retained.
- If you release your finger from the shutter button and press the ▲ button, ✱ will disappear and the FE will unlock.

3 Compose the scene and shoot.

Shooting with Slow Synchro

You can make the main subject, such as people, appear bright by having the camera provide the appropriate illumination with the flash. At the same time, you can use a slow shutter speed to brighten the background that the light from the flash cannot reach.



1 Choose ⚡★.

- After checking if the flash is raised (p. 71) and pressing the ▶ button, press the ◀▶ buttons or turn the ◎ dial to choose ⚡★, then press the (FUNC. SET) button.
- Once set, ⚡★ will appear on the screen.

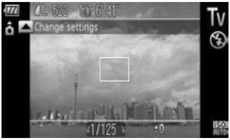
2 Shoot.

- Even if the flash fires, ensure that the subject does not move until the shutter sound ends.

> Attach the camera to a tripod to prevent the camera from moving and blurring the image. Additionally, you should set [IS Mode] to [Off] (p. 152).

Setting the Shutter Speed

You can set the shutter to the speed at which you want to shoot. The camera will set the appropriate aperture value for the shutter speed you set.
Tv stands for "Time value".



1 Set the mode dial to Tv.

2 Make the setting.

- Turn the dial to set the shutter speed.

3 Shoot.

Available Shutter Speeds

15", 13", 10", 8", 6", 5", 4", 3"2, 2"5, 2", 1"6, 1"3, 1", 0"8, 0"6, 0"5, 0"4, 0"3, 1/4, 1/5, 1/6, 1/8, 1/10, 1/13, 1/15, 1/20, 1/25, 1/30, 1/40, 1/50, 1/60, 1/80, 1/100, 1/125, 1/160, 1/200, 1/250, 1/320, 1/400, 1/500, 1/640, 1/800, 1/1000, 1/1250, 1/1600, 1/2000, 1/2500, 1/3200

- 2" indicates 2 seconds, 0"3 indicates 0.3 second and 1/160 indicates 1/160 second.
- The fastest shutter speed when using the flash is 1/2000 second. The camera automatically resets the shutter speed to less than 1/2000 second if a faster shutter speed is chosen. However, if [Safety FE] is set to [Off] (p. 95), the fastest shutter speed is 1/500 second.
- In addition, when the flash fires, the camera may automatically adjust the current shutter speed to the optimum speed for the shooting conditions.
- Depending on the zoom position, some shutter speeds may not be available.

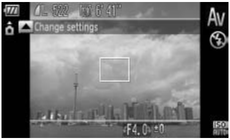
- When shutter speeds of 1.3 seconds or slower are used, images are processed to eliminate noise after being taken. A certain amount of processing time may be needed before you can take the next shot.
- You should set the [IS Mode] to [Off] when lowering the shutter speed and shoot with a tripod (p. 152).

What if the aperture value appears in orange?

If the aperture value appears in orange when the shutter button is pressed halfway, the scene has exceeded the correct exposure limits. Adjust the shutter speed until the aperture value appears in white. Safety Shift can also be used (p. 91).

Setting the Aperture Value

You can set the aperture to a value at which you want to shoot. The camera will set the appropriate shutter speed for the aperture value you set.
Av stands for "Aperture value", which refers to the size of the aperture opening inside the lens.



1 Set the mode dial to Av.

2 Make the setting.

- Turn the dial to set the aperture value.

3 Shoot.

Available Aperture Values

F3.1, F3.5, F4.0, F4.5, F5.0, F5.6, F5.9, F6.3, F7.1, F8.0

- Regardless of the aperture value you set, the camera will set a shutter speed of 1/2000 second or less when the flash fires. However, if [Safety FE] is set to [Off] (p. 95), the fastest shutter speed is 1/500 second.
- Depending on the zoom position, some aperture values may not be available.

What if the shutter speed appears in orange?

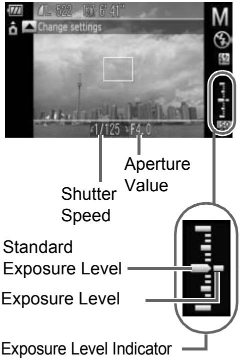
If the shutter speed appears in orange when the shutter button is pressed halfway, the scene has exceeded the correct exposure limits. Adjust the aperture value until the shutter speed appears in white. Safety shift can also be used.

Safety Shift

With **Tv** and **Av** modes, if [Safety Shift] is set to [On] in the tab, the shutter speed or aperture value is automatically adjusted for the correct exposure when it cannot otherwise be obtained.
Safety Shift is disabled when the flash is enabled.

Setting the Shutter Speed and Aperture Value

You can manually set the shutter speed and aperture to shoot images. **M** stands for "Manual".



1 Set the mode dial to M.

2 Make the setting.

- Press the ▲ button to choose the shutter speed or aperture value.
- Turn the dial to set a value.
- The set exposure level appears on the indicator. You can check the difference against the standard exposure level.
- When the difference is more than ±2 stops, the set exposure level appears in orange. When you press the shutter button halfway, "–2"or "+2" appears in orange.

- The standard exposure is calculated according to the metering method chosen (p. 86).
- If you use the zoom after making settings or change the composition, the exposure level may change.
- Depending on the shutter speed or aperture value set, the screen brightness may change. If the flash is raised and set to ⚡, the screen brightness will not change.
- If you press the ▲ button while holding down the shutter button halfway, the shutter speed or aperture value (whichever is not set in Step 2), will automatically adjust to obtain the correct exposure (the correct exposure may not be obtained depending on the settings).

Correcting the Brightness and Shooting (i-Contrast)

The camera can detect areas in the scene, such as faces or backgrounds, that are too bright or dark and automatically adjust them to the optimum brightness when shooting. Also, when the overall image is lacking in contrast, the camera will automatically correct the image for a sharper impression when shooting.





Choose [i-Contrast].

- Press the MENU button, choose the camera tab, and then choose the [i-Contrast] menu item. Press the ◀▶ buttons to choose [Auto].
- Once set, C_i will appear on the screen.

Under some conditions, the image may appear coarse or may not be corrected properly.

You can correct recorded images (p. 133).

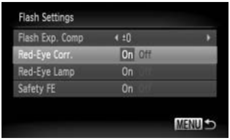
Red-Eye Correction

You can automatically correct red-eye that occurs in images taken with the flash.



1 Choose [Flash Settings].

- Press the MENU button, choose [Flash Settings] from the camera tab and press the FUNC. SET button.



2 Make the setting.

- Press the ▲▼ buttons or turn the dial to choose [Red-Eye Corr.] and press the ◀▶ buttons to choose [On].
- Once set, the red-eye icon will appear on the screen.

> Red-eye correction may be applied to areas other than red eyes. For example, when red make-up has been used around eyes.

- You can correct recorded images (p. 134).
- With the flash raised, if you press the ▶ button and immediately press the MENU button, the screen in Step 2 will appear.

Adjusting the Flash Exposure Compensation

Just like with exposure compensation (p. 70), you can adjust the exposure ±2 stops in 1/3-stop increments when using the flash.



1 Choose ⚡±.

- After pressing the FUNC./SET button, press the ▲▼ buttons or turn the dial to choose ⚡±, then press the FUNC./SET button.

2 Make the setting.

- Press the ▲▼ buttons or turn the dial to choose the amount of flash exposure compensation, then press the FUNC./SET button.
- ⚡± will appear on the screen.

Safety FE

The camera automatically changes the shutter speed or aperture value when the flash fires to avoid overexposing and blowing out the highlights in the scene. In the 📷 tab, if [Safety FE] in [Flash Settings] is set to [Off], the shutter speed and aperture value will not automatically adjust.

You can also set the flash exposure compensation from the 📷 tab. Choose [Flash Settings], then choose [Flash Exp. Comp] and press the ◀▶ buttons to choose a setting (p. 47).

Adjusting the Flash Output

In M mode, you can choose 3 levels of flash output.



1 Set the camera to M mode.

2 Choose the flash output.

- After pressing the FUNC./SET button, press the ▲▼ buttons or turn the dial to choose the flash output icon, then press the FUNC./SET button.

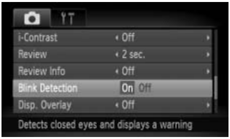
3 Make the setting.

- Press the ▲▼ buttons or turn the dial to choose the flash output, then press the FUNC./SET button.

> - You can also set the flash output from the camera tab. Choose [Flash Settings], then choose [Flash Output] and press the ◀▶ buttons to choose a setting (p. 47).
> - In Tv and Av modes, you can set the flash output if you choose the camera tab, then [Flash Settings] and set the [Flash Mode] option to [Manual].

Checking for Shut Eyes

When the camera detects the possibility that people have their eyes shut, the blink icon appears.



1 Choose [Blink Detection].

- Press the MENU button, choose the camera tab, and then choose the [Blink Detection] menu item. Press the ◀▶ buttons to choose [On].

2 Shoot.

- When a person with shut eyes is detected, a frame and the blink icon appear.

> - In face self-timer or custom timer mode, when the number of shots is set to two or more shots, this function is only available for the last image shot.
> - Not available in continuous, AF continuous, or LV continuous modes.

Changing the Color and Shooting

You can change the look of an image when shooting. However, depending on shooting conditions the image may become coarse, or the colors may not come out as expected.

Color Accent

You can choose to retain a single color and change the rest to black and white in a composition.



1 Choose ⁄A.

- Follow Steps 1 – 2 on p. 55 to choose ⁄A.

2 Press the DISP. button.

- The unchanged image and the Color Accent image will both display.
- The color for default settings is green.



Recorded color

3 Specify the color.

- Position the center frame so it is filled with the color you want and press the ◀ button.
- The specified color will be recorded.

4 Specify the range of colors.

- Press the ▲▼ buttons or turn the dial to change the range of colors to be retained.
- Choose a negative value to limit the range of colors. Choose a positive value to extend the range of colors to similar colors.
- Pressing the DISP. button accepts the setting and restores the shooting screen.

> Using the flash may cause unexpected results in this mode.

Color Swap

You can swap one color in an image for another when recording it. You can only swap one color.



1 Choose /S.

- Follow Steps 1 – 2 on p. 55 to choose /S.



2 Press the DISP. button.

- The unchanged image and the Color Swap image will both display.
- The default setting is to change green to gray.



3 Specify the color to be swapped.

- Position the center frame so it is filled with the color you want and press the ◀ button.
- The specified color will be recorded.



4 Specify the target color.

- Position the center frame so it is filled with the color you want and press the ▶ button.
- The specified color will be recorded.

5 Specify the range of colors to be swapped.

- Press the ▲▼ buttons or turn the dial to adjust the range of colors affected.
- Choose a negative value to limit the range of colors. Choose a positive value to extend the range of colors to similar colors.
- Pressing the DISP. button accepts the setting and restores the shooting screen.

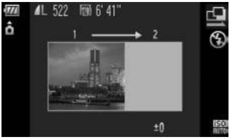
- Using the flash may cause unexpected results in this mode.
- Under some conditions, the image may appear coarse.

Shooting Stitch Assist Images

Large subjects can be split into several shots that can later be merged together using the included software on a computer to create a panoramic image.

1 Choose ⧉ or ⧉.

- Follow Steps 1 – 2 on p. 55 to choose ⧉ or ⧉.



2 Take the first shot.

- The exposure and white balance will be set with the first shot.



3 Take subsequent shots.

- Overlap part of the first shot when taking the second shot.
- Minor discrepancies in the overlapping portions will be corrected when the images are merged.
- Up to 26 shots can be recorded with the same procedures.

4 Finish shooting.

- Press the (FUNC. SET) button



5 Merge the images on a computer.

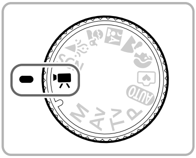
- For details on how to merge the images, refer to the *Software Guide*.

This function is not available when a TV is used as the monitor (p. 80).

6

Using Various Functions for Shooting Movies

This chapter provides more advanced information than the “Shooting Movies” and “Viewing Movies” sections of Chapter 1.

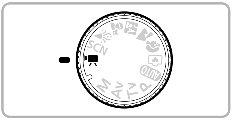


- This chapter assumes that the mode dial is set to 📽. Compared to shooting movies by pressing the movie button (p. 31), you can use various functions when shooting movies (pp. 102-105).
- Press the ▶ button to enter Playback mode before playing back or editing movies.

Shooting Movies with the Movie Button

- In modes other than 📽, you can record [Standard] setting movies by pressing the movie button.
  - When the mode dial is set to AUTO or ❤, the camera will automatically determine the scene when you shoot a movie (p. 31).
  - When the mode dial is set to anything other than AUTO or ❤, movies will be shot at the same settings as when the mode dial is set to 📽. You can shoot movies by pressing the movie button, however, certain settings made for still images in the FUNC. and Shooting menus will automatically change to match settings for shooting movies.
- When you finish shooting a movie, the settings will return to those before the movie was shot.

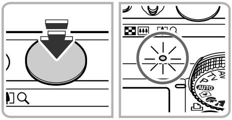
Shooting Movies



1 Enter [movie] mode.

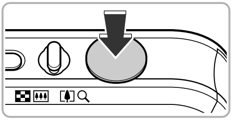
- Set the mode dial to [movie].

2 Adjust the settings according to your purposes (pp. 102 – 105).



3 Focus.

- Press the shutter button halfway to focus.
- When the camera focuses, it will beep twice and the indicator will light green.



4 Shoot.

- Press the shutter button fully.
- You can shoot in the same way as when you press the movie button (p. 31).

Changing the Movie Mode

You can choose between three Movie modes.



Choose a Movie mode.

- After pressing the [FUNC./SET] button, press the [▲▼] buttons to choose [movie], then press the [FUNC./SET] button.
- Press the [▲▼] buttons or turn the [dial] dial to choose a mode, and press the [FUNC./SET] button.

[movie] Standard	Normal mode.
Color Accent	These Shooting modes let you change all colors except the chosen color to black and white, or exchange the chosen color for another color, when shooting. See “Changing the Color and Shooting” (p. 97) for details.
Color Swap	

Under some conditions, colors may not turn out as expected in [Color Accent] and [Color Swap] modes.

In [Color Accent] or [Color Swap], you can also shoot in Color Accent (p. 97) or Color Swap (p. 98) modes by pressing the movie button. Choose the color you wish to leave in, or the color to change before pressing the movie button.

Changing the Image Quality

You can choose between three image quality settings.



1 Choose the image quality setting.

- After pressing the FUNC./SET button, press the ▲▼ buttons or turn the dial to choose 1280, then press the FUNC./SET button again.

2 Choose an option.

- Press the ▲▼ buttons or turn the dial to choose an option, then press the FUNC./SET button.
- The setting will display on the screen.

Image Quality Table

Image Quality (Recording Pixels/Frame Rate)	Content
1280 1280 x 720 pixels, 30 frames/sec.	For shooting high-definition movies.
640 640 x 480 pixels, 30 frames/sec.	For shooting standard quality movies.
320 320 x 240 pixels, 30 frames/sec.	Since the number of the recording pixels is smaller, the image quality will appear coarse when compared with 640, but you can record three times the length.

Estimated Shooting Time

Image Quality	Shooting Time	
	4GB	16GB
1280	20 min. 43 sec.	1 hr. 24 min. 54 sec.
640	43 min. 43 sec.	2 hrs. 59 min. 3 sec.
320	1 hr. 58 min. 19 sec.	8 hrs. 4 min. 30 sec.

- Based on Canon's testing standards.
- Recording will automatically stop when the clip file size reaches 4 GB, or when the recording time reaches approximately 29 min. 59 sec. when shooting in 1280, and approximately 1 hour when shooting in 640 or 320.
- Recording may stop even if the maximum clip length has not been reached on some memory cards.
  SD Speed Class 4 or higher memory cards are recommended.

AE Lock/Exposure Shift

You can lock the exposure or change it in 1/3 steps within a range of ±2 before shooting.



1 Focus.

- Press the shutter button halfway to focus.

2 Lock the exposure.

- After releasing the shutter button, press the ▶ button to lock the exposure. The exposure shift bar appears.
- Press the ▶ button again to release the lock.

3 Change the exposure.

- While watching the screen, turn the ◎ dial to adjust the brightness.

4 Shoot.

Other Shooting Functions

The following functions can be used in the same way as for still images. Functions marked with a * can be used in the same way as for still images when in or .

- Zooming in More Closely on Subjects (Digital Zoom) (p. 65)
  The sounds from zoom operation will be recorded.
- Using the Self-Timer (p. 68)*
- Changing the Focus Range (Macro) (p. 71)*
- Adjusting the White Balance (p. 75)
- Changing the Tone of an Image (My Colors) (p. 77)
- Shooting Using the Two Second Self-Timer (p. 78)*
- Shooting Using a TV Monitor (p. 80)*
- Shooting with the AF Lock (p. 84)*
- Shooting in Manual Focus Mode (p. 87)*
- Turning Off the AF Assist Beam (p. 150)*
- Displaying the Overlay (p. 151)*
  [3:2 Guide] is not available.
- Changing the IS-Mode Settings (p. 152)*
  You can switch between [Continuous], [Dynamic] and [Off].
- Registering Functions to the Movie Button (p. 153)*

Playback Functions

The following functions can be used in the same way as for still images.

- Erasing Images (p. 28)
- Quickly Searching Images (p. 110)
- Viewing Images in Filtered Playback (p. 111)
- Viewing Slideshows (p. 113)
- Changing Image Transitions (p. 116)
- Viewing Images on a TV (p. 117)
- Viewing Images on a High-Definition TV (p. 118)
- Protecting Images (p. 120)
- Erasing All Images (p. 123)
- Organizing Images by Category (My Category) (p. 125)
- Tagging Images as Favorites (p. 127)
- Rotating Images (p. 129)

Summary of Movie Control Panel in "Viewing Movies" (p. 33)

↩	Exit
▶	Playback
❙▶	Slow Motion Playback (you can use the ◀▶ buttons to adjust the speed. Sound will not play back.)
❙◀◀	Display the first frame
◀❙❙	Previous frame (Rewind if you hold down the FUNC/SET button.)
❙❙▶	Next frame (Fast forward if you hold down the FUNC/SET button.)
▶▶❙	Display the last frame
✂	Edit (p. 107)
🖨	Appears when connected to a PictBridge compliant printer (p. 136). Refer to the *Personal Printing Guide* for details.

Editing

You can trim the beginnings and ends of recorded movies in one-second increments.



Movie Editing Panel



Movie Editing Bar

1 Choose ✂.

- In Step 3 on p. 33, choose ✂ from the displayed movie control panel, then press the (FUNC./SET) button.
- The movie editing panel and the movie editing bar will appear.

2 Set the editing range.

- Press the ▲▼ buttons and choose ✂▭ or ▭✂.
- Press the ◀▶ buttons or turn the ◎ dial to move ▼. ✂ will display at each one second interval. If you choose ✂▭, you can trim the beginning of the movie from ✂. If you choose ▭✂, you can trim the end of the movie from ✂.
- Even if you move ▼ to a point other than a ✂ point, only the portion from the nearest ✂ to the left will be trimmed when ✂▭ is chosen. Only the portion from the nearest ✂ to the right will be trimmed when ▭✂ is chosen.
- The section indicated with ▼ will be the section of the movie that remains after editing.

3 Check the edited movie.

- Press the ▲▼ buttons to choose ▶ (Play), then press the (FUNC./SET) button. The edited movie will play.
- To edit the movie again, repeat Step 2.
- To cancel editing, press the ▲▼ buttons, and choose ↶. After pressing the (FUNC./SET) button, press the ◀▶ buttons or turn the ◎ dial to choose [OK], and press the (FUNC./SET) button again.



4 Save the edited movie.

- Press the ▲▼ buttons to choose [icon], then press the (FUNC./SET) button.
- Press the ▲▼◀▶ buttons or turn the [dial] dial to choose [New File], then press the (FUNC./SET) button.
- The movie will be saved as a new file.

> • When [Overwrite] is chosen in Step 4, the unedited movie is overwritten with the edited movie, erasing the original.
> • When there is not enough space left on the memory card, only [Overwrite] can be chosen.
> • If the battery is depleted partway through editing, the edited movie clips may not be saved. When editing movies, you should use a fully charged battery or the separately sold AC adapter kit (p. 39).

7

Using Various Playback and Editing Functions

This chapter explains various ways to play back and edit images.

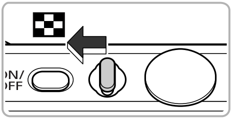
- Press the ▶ button to enter Playback mode before operating the camera.

> - It may not be possible to play back or edit images that have been edited on a computer, had their file name changed, or have been taken on a different camera.
> - The edit function (pp. 130 - 134) cannot be used if the memory card does not have free space available.

Quickly Searching Images

Searching Images Using Index Display

Displaying multiple images at a time lets you quickly find the image you want.



1 Move the zoom lever toward ▦.

- Images will display in an index.
- Move the zoom lever toward ▦ to increase the number of images. The number of images increases each time you move the lever.
- Move the zoom lever toward 🔍 to reduce the number of images. The number of images will reduce each time you move the lever.

2 Change the displayed images.

- Turn the ◎ dial to switch to the next set of images set in Step 1.



3 Choose an image.

- Press the ▲▼◀▶ buttons to choose an image.
- An orange frame appears on the chosen image.
- Press the FUNC/SET button to display the chosen image by itself.

Searching Images Using the Control Dial

Turn the control dial to quickly search images. You can also jump by the shooting date (Scroll Display).



Choose an image.

- If you set single image playback and turn the dial quickly, the images will display as shown on the left.
- Pressing the FUNC./SET button restores single image playback.
- While in Scroll Display, if you press the ▲▼ buttons, you can search images by the shooting date.

To turn off this effect, press the MENU button, then choose [Scroll Display] in the ▶ tab and choose [Off].

Viewing Images in Filtered Playback

When there are many images on the memory card, you can filter and display them by a specified filter. You can also protect (p. 120) or delete (p. 123) all filtered images at once.



1 Choose the filtered playback icon.

- Press the FUNC./SET button to choose the filtered playback icon in the FUNC. menu, then press the FUNC./SET button again.

2 Choose a filter.

- Press the ▲▼ buttons or turn the dial to choose a filter, then press the FUNC./SET button.



3 View the filtered images.

- Press the ▲▼ buttons or turn the dial to choose a filter for playback, then press the FUNC/SET button (except for ★).
- Filtered playback starts and a yellow frame appears.
- If you press the ◀▶ buttons or turn the dial, the chosen target images will display.
- If you choose [All Images] in Step 2, filtered playback will be canceled.

Search filters

★	Favorites	Displays images tagged as favorites (p. 127)
	Shot Date	Displays the images shot on a specified date
	My Category	Displays the images of a specified category (p. 125)
	File Type	Displays only still images or movies

What if you can't choose a filter?

Filters that do not contain any images cannot be chosen.

Filtered Playback

You can filter images during a slideshow (p. 113) so that only certain images will play back. You can also use the following functions in filtered playback for processing all the filtered images at once.

- "Protecting Images" (p. 120), "Erasing All Images" (p. 123), "Choosing Images for Printing (DPOF)" (p. 140)

Viewing Slideshows

You can automatically play back images recorded to a memory card. Each image displays for approximately 3 seconds.



1 Choose ⎙.

- Press the (FUNC/SET) button to choose ⎙ in the FUNC. menu, then press the (FUNC/SET) button again.

2 Choose a transition effect.



- After pressing the ▲ button, press the ▲▼ buttons or turn the ◎ dial to choose an effect, then press the (FUNC/SET) button.
- The slideshow will start a few seconds after [Loading image...] displays.
- In filtered playback (p. 111), only images matching a filter play back.
- You can pause/restart a slideshow by pressing the (FUNC/SET) button again.
- Press the MENU button to stop the slideshow.

- If you press the ◀▶ buttons or turn the ◎ dial during playback, the image will switch. If you keep the ◀▶ buttons pressed, you can fast-forward through images.
- The power saving function does not work during slideshows (p. 52).

Change the setting.

You can set a slideshow to repeat, or change transition effects and the time that slideshow images are displayed. You can choose from six transition effects when switching between images.

1 Choose [Slideshow].

- Press the MENU button, choose [Slideshow] from the ▶ tab and press the FUNC./SET button.



2 Make the setting.

- Press the ▲▼ buttons or turn the dial to choose an item, and press the ◀▶ buttons to adjust the setting.
- If you choose [Start] and press the FUNC./SET button, the slideshow starts with your settings.
- Pressing the MENU button will restore the menu screen.

You cannot change [Play Time] if [Bubble] is chosen in [Effect].

Checking the Focus

You can magnify the area of a recorded image that was inside the AF Frame, or the area of a face that was detected, to check the focus.



1 Press the DISP. button, and switch to the focus check display (p. 44).

- A white frame will appear where the AF frame or face was when the focus was set.
- A gray frame will appear on a face detected during playback.
- The area within the orange frame appears magnified.



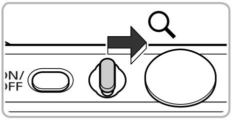
2 Switch frames.

- Move the zoom lever toward 🔍 once.
- The screen shown to the left will appear.
- Press the FUNC./SET button to move to a different frame when multiple frames appear.

3 Change the magnification level or location.

- Use the zoom lever to change the display size, and the ▲▼◀▶ buttons to change the display position while checking the focus.
- Pressing the MENU button resets the display to Step 1.

Magnifying Images





Approximate Location of Displayed Area

Move the zoom lever toward 🔍.

- The display will zoom in on the image and, if you continue to hold the zoom lever, it will continue to zoom in up to a maximum factor of 10x.
- If you press the ▲▼◀▶ buttons, you can move the location of the displayed area.
- Move the zoom lever toward ▦ to zoom out, or continue to hold it to return to Single Image Playback.
- If you turn the ◎ dial, you can switch images in the zoomed state.

Changing Image Transitions

You can choose from three transition effects when switching between images in Single Image Playback.



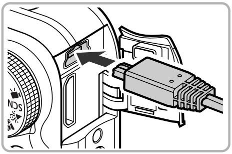
Choose [Transition].

- Press the MENU button and choose the ▶ tab, then choose [Transition] and press the ◀▶ buttons to choose a transition effect.

Viewing Images on a TV

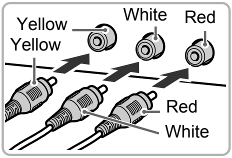
Using the supplied stereo AV cable (p. 2), you can connect the camera to a TV to view images you have shot.

1 Turn off the camera and TV.

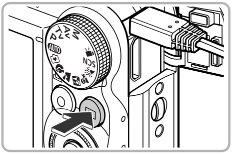


2 Connect the camera to the TV.

- Open the camera's terminal cover and fully insert the cable plug into the camera's terminal.
- Insert the cable plug fully into the video input terminals as shown in the illustration.



3 Turn on the TV and switch it to the input to which the cable is connected.



4 Turn on the camera.

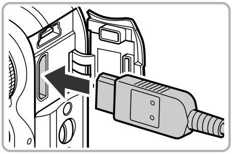
- Press the ▶ button to turn on the camera.
- The image will appear on the TV (nothing will appear on the screen of the camera).
- After you finish, turn off the camera and TV, and unplug the cable.

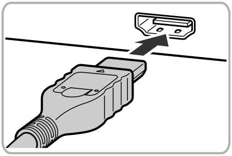
? What if the images don't properly display on the TV?

Images will not display correctly if the camera's video output setting (NTSC/PAL) does not match the TV system. Press the MENU button, choose the 🔧 tab and [Video System] to switch to the correct video system.

Viewing Images on a High-Definition TV

Use the separately sold HDMI Cable HTC-100 to connect the camera to a high-definition TV for an enhanced viewing experience.





1 Turn off the camera and TV.

2 Connect the camera to the TV.

- Open the cover and fully insert the cable plug into the camera's HDMI terminal.
- Fully insert the cable plug into the TV's HDMI terminal.
- Follow Steps 3 and 4 on p. 117 to display the images.

The supplied stereo AV and interface cables and the separately sold HDMI Cable HTC-100 cannot be plugged into the camera simultaneously. This could cause the camera to malfunction.

Operation sounds will not play when connected to a high-definition TV.

Displaying Various Images (Smart Shuffle)

The camera will choose four images based on the displayed image.
If you choose one of those images, the camera will choose four more images letting you enjoy the playing back of images in an unexpected order.
This will work best if you take many shots of various scenes.



1 Choose .

- Press the (FUNC. SET) button, choose in the FUNC. menu, then press the (FUNC. SET) button again.
- Four images will appear as candidates.



2 Choose an image.

- Press the ▲▼◀▶ buttons to choose the image you want to view next, then press the (FUNC. SET) button.
- The chosen image will be displayed in the middle, and the next four candidates will appear.
- Pressing the (FUNC. SET) button will display the middle image at full size. Press the (FUNC. SET) button again to restore the original display.
- Pressing the MENU button restores the single image display.

- Only still images shot with this camera will play back in Smart Shuffle.
- is not available in the following situations:
  - If there are less than 50 images taken with this camera on the memory card.
  - If you play back images other than candidates selected by the camera.
  - During filtered playback.

Protecting Images

You can protect important images so that they cannot be accidentally erased with the camera (pp. 28, 30, 123).



Choose O┳.

- Press the (FUNC./SET) button to choose O┳ in the FUNC. menu, then press the (FUNC./SET) button again.
- Once protected, [O┳] will appear.
- To unlock an image, press the (FUNC./SET) button again to choose O┳, then press the (FUNC./SET) button.

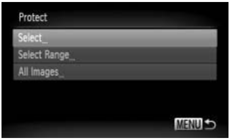
If you format the memory card (pp. 22, 51), protected images will also be erased.

Protected images cannot be erased with the camera's erase function. To erase an image, cancel protection first.

Using the Menu

1 Choose [Protect].

- Press the MENU button, choose the [▶] tab and [Protect], and then press the (FUNC./SET) button.



2 Choose a selection method.

- Press the ▲▼ buttons or turn the dial to choose a selection method, and press the (FUNC./SET) button.
- Pressing the MENU button will restore the menu screen.

Choosing Images Individually



1 Choose [Select].

- Follow Step 2 on page 120 to choose [Select] and press the (FUNC./SET) button.
- Press the ◀▶ buttons or turn the dial to choose the image and press the (FUNC./SET) button.
- Once set, [protect icon] will appear on the screen.
- Pressing the (FUNC./SET) button once more deselects the image, and [protect icon] will disappear.
- To choose multiple images, repeat the above operation.

2 Press the MENU button.



3 Protect the image.

- Press the ◀▶ buttons or turn the dial to choose [OK] and press the (FUNC./SET) button.

Select Range

1 Choose [Select Range].

- Follow Step 2 on p. 120 to choose [Select Range] and press the (FUNC./SET) button.



2 Choose the starting image.

- Press the (FUNC./SET) button



- Press the ◀▶ buttons or turn the dial to choose the image and press the (FUNC./SET) button.



3 Choose the ending image.

- Press the ▶ button, choose [Last image] and press the (FUNC/SET) button.



- Press the ◀▶ buttons or turn the (dial) dial to choose the image and press the (FUNC/SET) button.
- You cannot choose images before the first image.



4 Protect images.

- Press the ▲▼ buttons to choose [Protect] and press the (FUNC/SET) button.

Choose images with the (dial)

You can also choose the first or last image by turning the (dial) dial when the upper screen in Steps 2 and 3 is displayed.

Choose All Images

1 Choose [All Images].

- Follow Step 2 on p. 120 to choose [All Images] and press the (FUNC/SET) button.



2 Protect images.

- Press the ▲▼ buttons or turn the (dial) dial to choose [Protect] and press the (FUNC/SET) button.

You can unlock all protected images if you choose [Unlock] in Step 4, while in [Select Range], or Step 2 while in [All Images].

Erasing All Images

You can erase all images at once. Since erased images cannot be recovered, exercise adequate caution before erasing. Protected images (p. 120) cannot be erased.



1 Choose [Erase].

- Press the MENU button, choose the ▶ tab and [Erase], and press the FUNC/SET button.



2 Choose a selection method.

- Press the ▲▼ buttons or turn the dial to choose a selection method, and press the FUNC/SET button.
- Pressing the MENU button will restore the menu screen.

Choosing Images Individually



1 Choose [Select].

- Follow Step 2 above to choose [Select] and press the FUNC/SET button.
- Press the ◀▶ buttons or turn the dial to choose the image and press the FUNC/SET button.
- Once set, ✓ will appear on the screen.
- Pressing the FUNC/SET button once more deselects the image, and ✓ will disappear.
- To choose multiple images, repeat the above operation.

2 Press the MENU button.



3 Erase the image.

- Press the ◀▶ buttons or turn the dial to choose [OK] and press the FUNC/SET button.

Select Range

1 Choose [Select Range].

- Follow Step 2 on p. 123 to choose [Select Range] and press the (FUNC. SET) button.
- Follow Steps 2 and 3 on p. 121 to choose images.



2 Erase the image.

- Press the ▲▼ buttons to choose [Erase], then press the (FUNC. SET) button.

Choose All Images

1 Choose [All Images].

- Follow Step 2 on p. 123 to choose [All Images] and press the (FUNC. SET) button.



2 Erase.

- Press the ◀▶ buttons or turn the (dial) dial to choose [OK] and press the (FUNC. SET) button.

Organizing Images by Category (My Category)

You can organize images into categories. You can display the images in a category in Filtered Playback (p. 111) and process all images at once by using the functions below.

- Viewing Slideshows (p. 113), Protecting Images (p. 120), Erasing All Images (p. 123), Choosing Images for Printing (DPOF) (p. 140)



1 Choose [My Category].

- Press the (FUNC./SET) button to choose [My Category] in the FUNC. menu, then press the (FUNC./SET) button again.



2 Choose a category.

- Press the ▲▼ buttons to choose a category, then press the (FUNC./SET) button.
- Once set, ✓ will appear on the screen.
- Pressing the (FUNC./SET) button once more deselects the category, and ✓ will disappear.



3 Make the setting.

- Pressing the MENU button will display [Accept changes?].
- Press the ◀▶ buttons or turn the [Control Dial] dial to choose [OK], then press the (FUNC./SET) button.

If you switch Shooting modes or turn off the power before making the setting in Step 3, images will not be tagged as My Category.

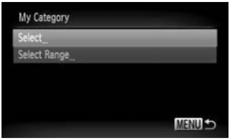
Images are automatically categorized by shooting condition as they are shot.

- [People]: Images with detected faces, or images shot in , , .
- [Scenery]: Images detected as , or in AUTO or modes, or images shot in or .
- [Events]: Images shot in , , or .

Using the Menu

1 Choose [My Category].

- Press the MENU button, choose the ▶ tab and [My Category], and press the FUNC/SET button.



2 Make the setting.

- Press the ▲▼ buttons or turn the dial to choose a selection method, and press the FUNC/SET button.
- Press the MENU button to return to the menu screen.

Choosing Images Individually



1 Choose [Select].

- Follow Step 2 above to choose [Select] and press the FUNC/SET button.
- Press the ◀▶ buttons or turn the dial to choose an image.
- Press the ▲▼ buttons to choose a category, then press the FUNC/SET button.
- Once set, ✓ will appear on the screen.
- Pressing the FUNC/SET button again deselects the image and ✓ will disappear.
- To choose multiple images, repeat the above operation.

2 Press the MENU button.



3 Adjust the setting.

- Press the ◀▶ buttons or turn the dial to choose [OK] and press the FUNC/SET button.

Select Range



1 Choose [Select Range].

- Follow Step 2 on p. 126 to choose [Select Range] and press the FUNC./SET button.
- Follow Steps 2 and 3 on pp. 121 - 122 to choose images.
- Press the ▲▼ buttons, choose the item and press the ◀▶ buttons, or turn the (dial) dial to choose a type.

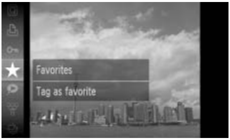
2 Make the setting.

- Press the ▲▼ buttons to choose [Select] and press the FUNC./SET button.

> If you choose [Deselect] in Step 2, you can deselect all of the images in the [Select Range] category.

Tagging Images as Favorites

When you tag images as favorites, you can easily categorize just those images. You can also filter out just those images for viewing, protecting or erasing (p. 111).



Choose ★

- Press the FUNC./SET button and choose ★ in the FUNC. menu, then press the FUNC./SET button again.
- Once set, ★ will appear on the screen.
- To untag the image, choose ★ in the FUNC. menu again, then press the FUNC./SET button.

> If you use Windows 7 or Windows Vista and transfer tagged images to the computer, they will be given a star rating of 3 (★★★☆☆) (except for movies).

Using the Menu



1 Choose [Favorites].

- Press the MENU button, choose the ▶ tab and [Favorites], then press the FUNC./SET button.



2 Make the setting.

- Press the ◀▶ buttons or turn the dial to choose the image and press the FUNC./SET button.
- Once set, ★ will appear on the screen.
- Pressing the FUNC./SET button again untags the image as a favorite and ★ disappears.
- To choose multiple images, repeat the above operation.



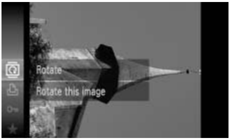
3 Adjust the setting.

- Pressing the MENU button will display [Accept changes?].
- Press the ◀▶ buttons or turn the dial to choose [OK] and press the FUNC./SET button.

If you switch Shooting modes or turn off the power before making the setting in Step 3, images will not be tagged as favorites.

Rotating Images

You can change the orientation of an image and save it.



1 Choose [rotate icon].

- Press the [FUNC./SET] button to choose [rotate icon] in the FUNC. menu, then press the [FUNC./SET] button again.



2 Rotate the image.

- Press the ◀▶ buttons to rotate the image 90° in the chosen direction.
- Press the [FUNC./SET] button to make the setting.

Using the Menu



1 Choose [Rotate].

- Press the MENU button, choose the [▶] tab and [Rotate], and press the [FUNC./SET] button.



2 Rotate the image.

- Press the ◀▶ buttons or turn the [control dial] dial to choose an image.
- The image will rotate 90° with each press of the [FUNC./SET] button.
- Pressing the MENU button will restore the menu screen.

> Movies with a resolution of [1280] cannot be rotated.

Resizing Images

You can resize images to a lower pixel setting and save the resized image as a separate file.



1 Choose [Resize].

- Press the MENU button and choose the ▶ tab, then choose [Resize] and press the FUNC./SET button.

2 Choose an image.

- Press the ◀▶ buttons or turn the dial to choose the image and press the FUNC./SET button.



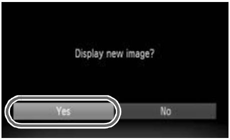
3 Choose an image size.

- Press the ◀▶ buttons or turn the dial to choose an option, then press the FUNC./SET button.
- The [Save new image?] screen will appear.



4 Save the new image.

- Press the ◀▶ buttons or turn the dial to choose [OK] and press the FUNC./SET button.
- The image will be saved as a new file.



5 Display the new image.

- When you press the MENU button, the [Display new image?] screen will appear.
- Press the ◀▶ buttons or turn the dial to choose [Yes], and press the FUNC./SET button.
- The saved image will be displayed.

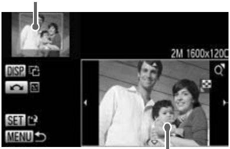
- You cannot resize an image to a larger size.
- Images recorded at a pixel setting of W (p. 72), or saved as XS in Step 3 cannot be edited.

Trimming

You can cut out a portion of a recorded image and save it as a new image file.



Trimming Area



Trimming Area Display

Recorded pixels after trimming



1 Choose [Trimming].

- Press the MENU button, choose the ▶ tab and [Trimming], then press the FUNC./SET button.

2 Choose an image.

- Press the ◀▶ buttons or turn the dial to choose the image and press the FUNC./SET button.

3 Adjust the trimming area.

- A frame will appear around the portion of the image to be trimmed.
- The original image will display in the upper left and the trimmed image will display in the lower right.
- If you move the zoom lever to the left or right, you can change the frame size.
- If you press the ▲▼◀▶ buttons, you can move the frame.
- If you press the DISP. button, you can change the frame orientation.
- In an image with detected faces, gray frames appear around the faces located in the upper left image. The frames can be used for trimming. You can switch between frames by turning the dial.
- Press the FUNC./SET button.

4 Save as a new image and display.

- Follow Steps 4 and 5 on p. 130.

- Images recorded at a pixel setting of W or S (p. 72), or resized to XS (p. 130) cannot be edited.
- The width and height ratio of an image that can be changed is fixed at 4:3 (for a vertical image 3:4).
- The number of recorded pixels in a trimmed image will be smaller than before trimming.

Adding Effects with the My Colors Function

You can change the color of an image and save it as a separate image. Refer to p. 77 for details on each menu item.



1 Choose [My Colors].

- Press the MENU button, choose the ▶ tab and [My Colors], and press the FUNC./SET button.

2 Choose an image.

- Press the ◀▶ buttons or turn the dial to choose the image and press the FUNC./SET button.



3 Choose an option.

- Press the ◀▶ buttons or turn the dial to choose an option.
- The screen will change according to the chosen effect.
- Press the FUNC./SET button.

4 Save as a new image and display.

- Follow Steps 4 and 5 on p. 130.

- If you repeatedly change the color of an image, the quality will gradually deteriorate and you may not achieve the expected color.
- The coloration of images changed with this function may vary from those recorded with the My Colors function (p. 77).

Correcting the Brightness (i-Contrast)

The camera can detect areas in an image, such as faces or backgrounds, that are too dark and automatically adjust them to the optimum brightness. Also, when the overall image is lacking in contrast, the camera will automatically correct the image for a sharper impression. You can choose from 4 levels of correction: [Auto], [Low], [Medium] or [High]. Corrected images will be saved as a new file.



1 Choose [i-Contrast].

- Press the MENU button, choose the ▶ tab and [i-Contrast], then press the FUNC./SET button.

2 Choose an image.

- Press the ◀▶ buttons or turn the dial to choose the image and press the FUNC./SET button.



3 Choose an option.

- Press the ◀▶ buttons to choose an option, and press the FUNC./SET button.

4 Save as a new image and display.

- Follow Steps 4 and 5 on p. 130.

- Under some conditions, the image may appear coarse or the correction setting may not be suitable.
- Repeatedly adjusting the same image may cause the quality to deteriorate.

What if the image wasn't corrected by the [Auto] option as well as you would like?

Choose [Low], [Medium] or [High] and adjust the image.

Correcting the Red-Eye Effect

You can automatically correct red eyes in images and save them as new files.



1 Choose [Red-Eye Correction].

- Press the MENU button, choose the ▶ tab and [Red-Eye Correction], then press the FUNC./SET button.

2 Choose an image.

- Press the ◀▶ buttons or turn the dial to choose an image.

3 Correct the image.

- Press the FUNC./SET button.
- ▶ Red-eye detected by the camera will be corrected and a frame will appear around the corrected portion.
- You can magnify or reduce the size of the image using the procedures in "Magnifying Images" (p. 116).



4 Save as a new image and display.

- Press the ▲▼◀▶ buttons, or turn the dial to choose [New File], and press the FUNC./SET button.
- ▶ The image will be saved as a new file.
- Follow Step 5 on p. 130.

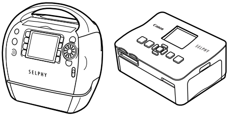
- Some images may not be properly corrected.
- When [Overwrite] in Step 4 is chosen, the uncorrected image is overwritten with the corrected data, erasing the original image.
- Protected images cannot be overwritten.

8

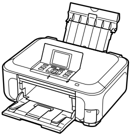
Printing

This chapter explains how to choose images for printing, and print using a Canon-brand PictBridge capable printer (sold separately) (p. 40). Please also refer to the *Personal Printing Guide*.

Canon-Brand PictBridge Compliant Printers



SELPHY series



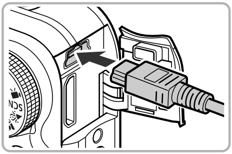
PIXMA series

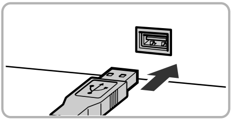


Printing Images

You can easily print the pictures you take by connecting the camera to a PictBridge compliant printer using the supplied interface cable (p. 2).

1 Turn off the camera and printer.

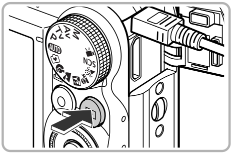




2 Connect the camera to the printer.

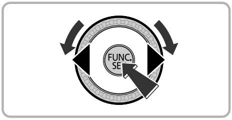
- Open the cover, and insert the small end of the plug firmly into the camera terminal in the direction shown.
- Insert the cable's larger plug into the printer. For connection details, refer to the user guide provided with the printer.

3 Turn on the printer.



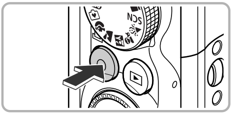
4 Turn on the camera.

- Press the ▶ button to turn on the camera.



5 Choose an image to print.

- Press the ◀▶ buttons or turn the dial to choose the image and press the FUNC./SET button.



6 Print images.

- Press the 🖨 button.
- Printing will start.
- If you want to print additional images, repeat Steps 5 and 6 after printing has completed.
- After printing has completed, turn off the camera and printer, and unplug the interface cable.

- Refer to the *Personal Printing Guide* for details on printing.
- Refer to p. 40 for Canon-brand Pictbridge compliant printers. Index printing is not available with the CP710/CP510/CP500/CP400/CP330/CP300/CP220/CP200 printers.

Printing from the Print List (DPOF)

You can add images to the print list (DPOF) directly after shooting or during playback by pressing the 🖨 button. You can print from a print list simply by connecting your camera and printer. These selection methods comply with the DPOF (Digital Print Order Format) standards.

Easily Add Images to the Print List

1 Choose an image.

- Press the ◀▶ buttons or turn the ◎ dial to choose the image.

2 Press the 🖨 button (videos will be excluded).



3 Print list.

- Press the ▲▼ buttons to choose the number of prints, then press the ◀▶ buttons or turn the ◎ dial to choose [Add] and press the FUNC. SET button.
- To cancel adding images, choose the added images and press the 🖨 button, then press the ◀▶ buttons, or turn the ◎ dial to choose [Remove] and press the FUNC. SET button.

Print Added Images

The following examples use the Canon SELPHY series printers.

Number of copies to print



1 Connect the camera to the printer.

- Follow Steps 1 – 4 on p. 136.

2 Print images.

- Press the ▲▼ buttons, choose [Print now] and press the FUNC./SET button.
- Printing will start.
- If you stop the printer during printing and start again, it will start from the next print.

Choosing Images for Printing (DPOF)

You can choose up to 998 images on a memory card for printing and specify settings such as the number of copies so that they can be printed together or processed at a photo developer service. These selection methods comply with the DPOF (Digital Print Order Format) standards.

Print Settings

You can set the print type, date and file number. These settings apply to all images chosen for printing.



1 Choose [Print Settings].

- Press the MENU button and choose the 🖨 tab, then choose [Print Settings] and press the (FUNC/SET) button.

2 Make the setting.

- Press the ▲▼ buttons or turn the ◎ dial to choose a menu item, then press the ◀▶ buttons to choose an option.
- Pressing the MENU button accepts the settings and restores the menu screen.

Print Type	Standard	Prints one image per page.
	Index	Prints several reduced size images per page.
	Both	Prints both standard and index formats.
Date	On	Prints the shooting date.
	Off	—
File No.	On	Prints the file number.
	Off	—
Clear DPOF data	On	Removes all print settings after printing.
	Off	—

- Some printers or photo developer services may not be able to reflect all of the settings in the output.
- ❗ may appear when using a memory card with print settings set by a different camera. These settings will be overwritten with those set by your camera.
- If [Date] is set to [On], some printers may print the date twice.

- With [Index] chosen, the [Date] and [File No.] options cannot be set to [On] at the same time.
- The date will be printed in the style set in the [Date/Time] function in the 𝐘𝐓 tab (p. 20).

Choosing the Number of Copies



1 Choose [Select Images & Qty.].

- Press the MENU button and choose the 凸 tab, then choose [Select Images & Qty.] and press the FUNC/SET button.

2 Choose an image.

- Press the ◀▶ buttons or turn the dial to choose the image and press the FUNC/SET button.
- You will be able to set the number of print copies.
- If you choose [Index], ✓ appears on the screen. Pressing the FUNC/SET button again will deselect the image and ✓ will disappear.



3 Set the number of prints.

- Press the ▲▼ buttons or turn the dial to set the number of prints (maximum 99).
- Repeat Steps 2 and 3 to choose other images and the number of prints for each.
- You cannot set the number of print copies for index prints. You can only choose which images to print.
- Pressing the MENU button accepts the settings and restores the menu screen.

Choose Range



1 Choose [Select Range].

- In Step 1 on p. 141, choose [Select Range] and then press the (FUNC. SET) button.
- Choose images according to Steps 2 and 3 on pp. 121 – 122.

2 Make print settings.

- Press the ▲▼ buttons, choose [Order] and press the (FUNC. SET) button.

Set All Images to Print Once



1 Choose [Select All Images].

- In Step 1 on p. 141, choose [Select All Images] and then press the (FUNC. SET) button.

2 Make print settings.

- Press the ◀▶ buttons or turn the dial to choose [OK] and press the (FUNC. SET) button.

Clearing All Selections



1 Choose [Clear All Selections].

- In Step 1 on p. 141, choose [Clear All Selections] and then press the (FUNC. SET) button.

2 All selections will be cleared.

- Press the ◀▶ buttons or turn the dial to choose [OK] and press the (FUNC. SET) button.

9

Customizing Camera Settings

You can customize various settings to suit your shooting preferences.
The first part of this chapter explains convenient and commonly used functions.
The latter part explains how to change shooting and playback settings to suit your purposes.



Changing Camera Settings

You can customize convenient and commonly used functions from the 🔧 tab (p. 47).

Change Sounds

You can change each of the camera's operation sounds.



- Choose [Sound Options], then press the FUNC./SET button.
- Press the ▲▼ buttons or turn the dial to choose an option.
- Press the ◀▶ buttons to choose an option.

1	Preset sounds. (cannot be modified)
2	Preset sounds. You can use the included software to change the sounds.

Turning Off Hints & Tips

When you choose an item in the FUNC. menu (p. 46) or MENU (p. 47), a description of the function (hints and tips) is displayed. You can turn off this function.



- Choose [Hints & Tips], then press the ◀▶ buttons to choose [Off].

Changing the Start-up Screen

You can change the start-up image that appears on the screen when you turn on the camera.



- Choose [Start-up Image], then press the FUNC./SET button.
- Press the ◀▶ buttons or turn the dial to choose an option.

(No start-up image icon)	No start-up image.
1	Preset images. (cannot be modified)
2	Preset images. You can set recorded images, and use the included software to change the images.

Setting a Recorded Image as the Start-up Screen Image

When you press the ▶ button and set the camera to Playback mode, you can register an image.





- Choose [Start-up Image], then press the FUNC./SET button.
- Press the ◀▶ buttons to choose [2], then press the FUNC./SET button.
- Press the ◀▶ buttons or turn the dial to choose the image and press the FUNC./SET button.
- Press the ◀▶ buttons or turn the dial to choose [OK], then press the FUNC./SET button to complete registration.

> Any previously registered start-up image will be overwritten when registering a new start-up image.

Using the included software to register sounds and the start-up screen image

You can register sounds and start-up screen images that come with the included software to the camera. Refer to the Software Guide for details.

Changing the File Number Assignment

Images you shoot are automatically assigned file numbers in the order they were taken, from 0001 – 9999, and saved to folders of up to 2,000 images. You can change the file number assignment.



Choose [File Numbering], then press the ◀▶ buttons to choose an option.

Continuous	Even if you shoot using a new memory card, the file numbers are assigned consecutively until an image with the number 9999 is taken/saved.
Auto Reset	If you replace the memory card with a new one, or a new folder is created, file numbering begins with 0001 again.

- If you use a memory card already containing images, the newly assigned file numbers may continue the existing numbering for both the [Continuous] and [Auto Reset] settings. If you want to start over with file number 0001, format the memory card before use (pp. 22, 51).
- Refer to the *Software Guide* for information regarding folder structure or image types.

Creating Folders by Shooting Date

Images are saved into folders created each month, however, you can also create folders by shooting date.



Choose [Create Folder] and press the ◀▶ buttons to choose [Daily].

Images will be saved into folders created on each shooting date.

Changing the Lens Retract Time

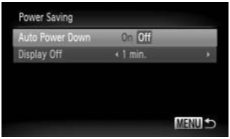
For safety reasons, the lens retracts about 1 minute after pressing the ▶ button when in a Shooting mode (p. 27). If you want the lens to retract immediately when you press the ▶ button, set the retract time to [0 sec.].



- Choose [Lens Retract], then press the ◀▶ buttons to choose [0 sec.].

Turning off the Power Saving Function

You can set the power saving function (p. 52) to [Off]. Setting it to [On] is recommended to save battery power.



- Choose [Power Saving], then press the FUNC/SET button.
- Press the ▲▼ buttons or turn the dial to choose [Auto Power Down], then press the ◀▶ buttons to choose [Off].
- If you set the power saving function to [Off], be sure to turn the camera off after use.

Setting the Screen Shut-Off Time

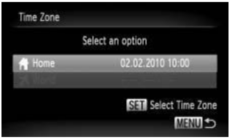
You can adjust the time the screen takes to shut off automatically (p. 52). This also works when [Auto Power Down] is set to [Off].

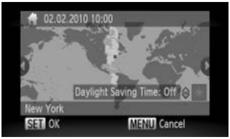


- Choose [Power Saving], then press the FUNC/SET button.
- Press the ▲▼ buttons or turn the dial to choose [Display Off], then press the ◀▶ buttons to choose a time.
- In order to save battery power, you should choose less than [1 min.].

Using the World Clock

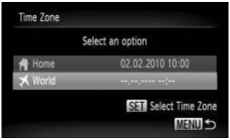
When traveling abroad, you can record images with local dates and times simply by switching the time zone setting. If you pre-register the destination time zones, you can enjoy the convenience of not having to switch the Date/ Time settings.





1 Set the home time zone.

- Choose [Time Zone] and press the (FUNC/SET) button.
- When setting this for the first time, check the information that displays on the screen at the left, and press the (FUNC/SET) button.
- Press the ◀▶ buttons or turn the ◎ dial to choose the home time zone, then press the (FUNC/SET) button. To set daylight saving time (adds 1 hour), press the ▲▼ buttons to choose ☀.



2 Set the world time zone.

- Press the ▲▼ buttons or turn the ◎ dial to choose [✈ World], then press the (FUNC/SET) button.
- Press the ◀▶ buttons or turn the ◎ dial to choose the destination time zone, then press the (FUNC/SET) button.
- You can also set the daylight saving time as in Step 1.



3 Choose the world time zone.

- Press the ▲▼ buttons or turn the ◎ dial to choose [✈ World], then press the MENU button.
- ✈ will appear in the [Time Zone] or shooting screen (p. 164).

If you change the date or time in the ✈ setting (p. 20), your [⌂ Home] time and date will automatically change.

Changing Distance Units

You can change the distance units that display in the zoom bar (p. 24) and the MF indicator (p. 87) from m/cm to ft/in.



- Choose [Distance Units], then press the ◀▶ buttons to choose [ft/in].

Changing Shooting Function Settings

If you set the mode dial to **P**, you can change the settings in the tab (p. 47).

> Before attempting to shoot using a function explained in this chapter in modes other than **P** mode, check if the function is available in those modes (p. 168).

Switching the Focus Setting

The camera focuses on whatever it is aimed at even when the shutter button is not pressed. However, you can set it so that the camera only focuses when the shutter button is pressed halfway.



- Choose [Continuous AF], then press the ◀▶ buttons to choose [Off].

On	Since the camera focuses continuously until you press the shutter button halfway, it allows you to shoot without missing photo opportunities.
Off	The camera does not continuously focus, thereby conserving battery power.

Turning Off the AF Assist Beam

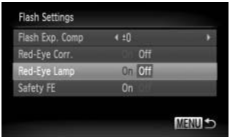
The lamp will automatically light to assist focusing in low light conditions when you press the shutter button halfway. You can turn off the lamp.



- Choose [AF-assist Beam], then press the ◀▶ buttons to choose [Off].

Turning Off the Red-Eye Reduction Function

The red-eye reduction lamp lights in order to reduce the red-eye effect that occurs when shooting in dark conditions with the flash. You can turn off the lamp.



- Choose [Flash Settings], then press the FUNC. SET button.
- Press the ▲▼ buttons or turn the dial to choose [Red-Eye Lamp], then press the ◀▶ buttons to choose [Off].

Changing the Image Display Time

You can change the length of time the images display right after shooting.



- Choose [Review], then press the ◀▶ buttons to choose an option.

2 – 10 sec.	Displays images for the set time.
Hold	The image displays until you press the shutter button halfway.
Off	No image displays

Changing the Way the Image Displays Right After Shooting

You can change the way the image displays right after shooting.



Choose [Review Info], then press the ◀▶ buttons to choose an option.

Off	Displays the image only.
Detailed	Displays detailed information (pp. 44, 165)
Focus Check	The area inside the AF frame is magnified, allowing you to check the focus. The procedure is the same as in "Checking the Focus" (p. 115).

Displaying the Overlay

You can display gridlines for vertical and horizontal guidance, or a 3:2 guide to confirm the printable area for postcard size prints.

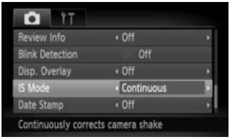


Choose [Disp. Overlay], then press the ◀▶ buttons to choose an option.

Grid Lines	A grid overlays the display.
3:2 Guide	Gray bars will appear on the top and bottom of the display. This area will not print when printing on paper with a 3:2 aspect ratio.
Both	Both grid lines, and the 3:2 guide will display.

- In W mode, you cannot set [3:2 Guide] or [Both].
- Grid Lines will not be recorded on the image.
- The gray areas displayed with [3:2 Guide] are the areas that will not be printed. The actual image recorded will include the portion in the gray areas.

Changing the IS-Mode Settings



Choose [IS Mode], then press the ◀▶ buttons to choose an option.

Continuous	Image stabilization is always on. You can confirm the result directly on the display, which makes it easier to check the composition or focus.
Dynamic*1	Reduces strong camera shake, for example when walking, while shooting movies.
Shoot Only*2	Image stabilization is only active at the moment of shooting.
Panning*2	Image stabilization only counters up and down motion. This option is recommended for shooting objects moving horizontally.

*1 Setting changes to [Continuous] when shooting still images.

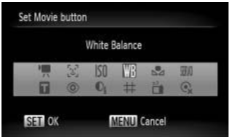
*2 Setting changes to [Continuous] when shooting movies.

- If camera shake is too strong, attach the camera to a tripod. You should set the IS Mode to [Off] when the camera is attached to a tripod.
- When using [Panning], hold the camera horizontally to shoot. Image stabilization does not work when the camera is held vertically.

The Dynamic effect increases when you press the zoom lever toward [wide-angle icon] and zoom out.

Registering Functions to the Movie Button

If you register another commonly used function to the movie button, the button will act as a Shortcut button.



- Select [Set Movie button], then press the FUNC./SET button.
- Press the ▲▼◀▶ buttons or turn the dial to choose the functions to register, then press the FUNC./SET button.
- Pressing the movie button will call up the registered function.

- Choose the movie icon to return to the default settings.
- Choose the "do not register" icon if you do not want to register anything to the movie button.
- When this ⃠ symbol is shown on the bottom right of an icon, the function cannot be used in the current shooting mode or function setting.
- In the custom white balance icon, each press of the movie button records white balance data (p. 75), and the white balance settings change to the custom white balance icon.
- If you press the movie button in the display-off icon, the screen will turn off. Try one of the following to solve the problem:
  - Press any button other than the power button
  - Change the camera's vertical or horizontal orientation
  - Raise and lower the flash
- The functions registered here cannot be used in Easy mode (p. 29). In Easy mode, pressing the movie button, starts normal movie recording.

Changing Playback Function Settings

You can adjust the settings in the ▶ tab by pressing the ▶ button (p. 47).

Choosing the Image that First Displays in Playback



Choose [Resume], then press the ◀▶ buttons to choose an option.

Last seen	Resumes with the image last viewed.
Last shot	Resumes with the most recently shot image.

10

Useful Information

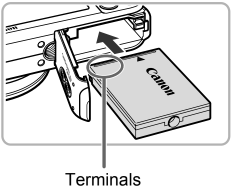
This chapter introduces how to use the AC adapter kit (sold separately), troubleshooting tips, and contains lists of functions and items that appear on the screen. The index also appears at the end.



Using Household Power

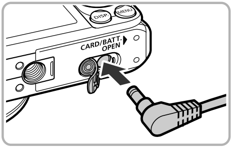
If you use AC Adapter Kit ACK-DC30 (sold separately), you can use the camera without worrying about how much charge is left in the battery.

1 Turn off the camera.



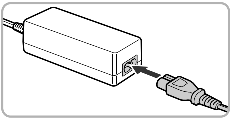
2 Insert the coupler.

- Open the cover (p. 17) and insert the coupler as shown until it locks into place with a click.
- Close the cover (p. 17).



3 Plug the cord into the coupler.

- Open the cover and fully insert the plug into the coupler.



4 Connect the power cord.

- Connect the power cord to the compact power adapter, then plug the other end into a power outlet.
- You can turn the camera on to use it.
- After you finish, turn off the camera and unplug the power cord from the power outlet.

> Do not unplug the plug or power cord with the camera turned on. This could erase images you have taken or damage the camera.

Using the Eye-Fi Card

Before using an Eye-Fi card, be sure to check whether Eye-Fi card use is authorized in the country or territory of use (p. 16).
When you put a prepared Eye-Fi card into the camera, you can automatically transfer your images wirelessly to a computer, or upload them to a web service.
Image transfer is a function of the Eye-Fi card. For details on how to setup and use the card, and concerning problems transferring images, please refer to the Eye-Fi card user guide, or contact the manufacturer.

Please keep the following things in mind when using an Eye-Fi card.

- Even if you set [Eye-Fi trans.] to [Disable] (p. 158), the Eye-Fi card may transmit radio waves. Be sure to remove the Eye-Fi card from the camera before entering areas that prevent unauthorized transmission of radio waves, such as hospitals and airplanes.
- If you have trouble transferring images, check the card or computer settings. For details, refer to the user guide supplied with the card.
- Depending on the connection status of the wireless network, it may take time to transfer images, or image transfer may be interrupted.
- Due to its transfer function, the Eye-Fi card may become hot.
- Battery consumption will be quicker than in normal use.
- Camera operations will be slower than in normal use. This may be resolved by setting [Eye-Fi trans.] to [Disable] (p. 158).

If you put an Eye-Fi card into the camera, the connection status can be checked in the shooting screen (Information Display) and playback screen (Simple Information Display).

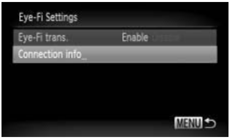
(Gray)	Not connected
(Flashing white)	Connecting
(White)	Transfer standby
(Animated)	Transferring
	Interrupted
	Error retrieving Eye-Fi card info (Turn the camera off and on again. If this continues to appear, there may be a problem with the card.)

will appear on transferred images.

The power saving function does not work while transferring images (p. 52).

Checking Connection Information

You can check the Eye-Fi card's access point SSID, or connection status.

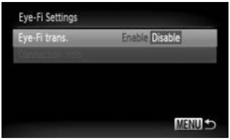


Choose [Connection info].

- Press the MENU button, then choose [Eye-Fi Settings] from the 🔧 tab, and press the FUNC./SET button.
- Press the ▲▼ buttons or turn the ◎ dial to choose [Connection info], then press the FUNC./SET button.
- The Connection info screen will appear.

Disabling Eye-Fi Transfer

You can set the card to disable Eye-Fi transfer.



Choose [Disable] in [Eye-Fi trans.]

- Press the MENU button, then choose [Eye-Fi Settings] from the 🔧 tab, and press the FUNC./SET button.
- Press the ▲▼ buttons or turn the ◎ dial to choose [Eye-Fi trans.], then press the ◀▶ buttons to choose [Disable].

What if [Eye-Fi Settings] does not appear?

[Eye-Fi Settings] will only appear when the Eye-Fi card is inserted in the camera.

If the Eye-Fi card has a write-protect tab, you will not be able to check the card's connection status, or disable Eye-Fi card transmission when the tab is in the locked position.

Troubleshooting

If you think there is a problem with the camera, first check the following. If the items below do not solve your problem, contact a Canon Customer Support Help Desk as listed on the included customer support list.

Power

You pressed the power button, but nothing happened.

- Confirm that the battery is not depleted (pp. 2, 15).
- Confirm that the battery is properly inserted (p. 17).
- Confirm that the memory card/battery cover is securely closed (p. 17).
- If the battery terminals are dirty, battery performance will decrease. Clean the terminals with a cotton swab and re-insert the battery several times.

Battery is consumed quickly.

- Battery performance decreases at low temperatures. Warm the battery, for example, by placing it in your pocket with the terminal cover on.

Lens will not retract.

- Do not open the memory card/battery cover while the power is on. After closing the memory card/battery cover, turn the power on then back off (p. 17).

TV output

Image is distorted or not showing on TV (p. 117).

Shooting

Cannot shoot.

- Set the mode dial to a Shooting mode (p. 42).
- When in Playback mode (p. 27), press the shutter button halfway (p. 23).

Screen does not display properly in dark places (p. 45).

Screen does not display properly while shooting.

The following will not be recorded in still images, but will be recorded in movies. Please note,

- When the camera is subjected to powerful light sources, the display may darken.
- When shooting under fluorescent lighting, the screen may flicker.
- When shooting bright light sources, a bar of light (purplish red) may appear on the screen.

⚡ appears on the screen and the shot cannot be taken even though the shutter button was pressed fully (p. 27).

(camera shake icon) appears when the shutter button was pressed halfway (pp. 26, 64)

- Set the [IS mode] to [Continuous] (p. 152).
- Set the flash to ⚡ (p. 71).
- Increase the ISO speed (p. 74).
- Attach the camera to a tripod.

Image is blurred.

- Press the shutter button halfway to focus on the subject, then press fully to shoot (p. 23).
- Shoot the subject within the focusing distance (pp. 26, 173).
- Set the [AF-assist Beam] to [On] (p. 150).
- Confirm that functions which you do not intend to use (macro, etc.) are not set.
- Shoot using the focus lock or AF lock (pp. 80, 84).

Even when you press the shutter button halfway, the AF frame does not appear, and the camera does not focus.

- If you center on the light and dark contrasting area of the subject and push the shutter button halfway, or repeatedly push the shutter button halfway, the frame will appear and the camera will focus.

Subject is too dark.

- Set the flash to ⚡ (p. 71).
- Adjust the brightness with exposure compensation (p. 70).
- Adjust the image with i-Contrast (pp. 93, 133)
- Use the AE lock, or spot metering to shoot (pp. 86, 88).

Subject is too bright (overexposed).

- Set the flash to ⊛ (p. 64).
- Adjust the brightness with exposure compensation (p. 70).
- Use the AE lock, or spot metering to shoot (pp. 86, 88).
- Reduce the light illuminating the subject.

Image is dark even though the flash fired (p. 26).

- Increase the ISO speed (p. 74).
- Shoot within an appropriate distance for flash photography (p. 71).
- Adjust the flash exposure compensation or the flash output (pp. 95, 96).

Image taken using the flash is too bright (overexposed).

- Shoot within an appropriate distance for flash photography (p. 71).
- Set the flash to ⊛ (p. 64).
- Adjust the flash exposure compensation or the flash output (pp. 95, 96).

White dots appear on the image when shooting with the flash.

- Light from the flash has reflected off dust particles or other objects in the air.

Image appears rough or grainy.

- Shoot with the ISO speed on a lower setting (p. 74).
- Depending on the Shooting mode, when shooting in a high ISO speed the image may appear rough or grainy (p. 55).

Eyes appear red (p. 94).

- Set the [Red-Eye Lamp] to [On] (p. 150). When shooting with the flash, the lamp (on the front of the camera) lights (p. 42), and for approximately 1 second while the camera is reducing red-eye, it is not possible to shoot. It is more effective if the subject is looking directly at the lamp. Even better results can be obtained by increasing the lighting in indoor settings or approaching closer to the subject.

Recording images to the memory card takes a long time, or continuous shooting slows down.

- Perform a low-level format of the memory card in the camera (p. 51).

You cannot make settings for shooting functions or in the FUNC. menu.

- The items in which settings can be made differ depending on the shooting mode (pp. 166 – 169).

Cannot operate buttons.

- When the mode dial is set to , some buttons cannot be used (p. 29).

Shooting movies

Correct shooting time does not display, or stops.

- Format the memory card in the camera, or use a memory card capable of recording at high speeds. Even when the shooting time does not display properly, the recorded video will be the length that it was actually shot (pp. 32, 103).

appeared on the screen and shooting ended automatically.

The camera's internal memory was insufficient. Try one of the following:

- Perform a low-level format of the memory card in the camera (p. 51).
- Change the image quality setting (p. 103).
- Use a memory card capable of recording at high speeds (p. 103).

Playback

Cannot play back images or movies.

- If the file name or folder structure is changed on a computer, you may not be able to play back images or movies. Refer to the *Software Guide* for information regarding folder structure or file names.

Playback stops, or audio cuts out.

- Use a memory card that has been formatted on this camera (pp. 22, 51).
- If you copy a movie to a memory card that reads slowly, playback may interrupt momentarily.
- Depending on its capabilities, when playing movies, the computer may drop frames or the audio may cut out.

Cannot operate buttons.

- When the mode dial is set to , some buttons cannot be used (p. 30).

Computer

Cannot transfer images to a computer.

It may be possible to solve the problem when the camera is connected to the computer via cable by reducing the transfer speed.

- Press and hold down the MENU button, then press and hold the ▲ and (FUNC/SET) buttons simultaneously. Choose [B] when it appears on the screen, then press the (FUNC/SET) button.

Eye-Fi Card

Cannot send images (p. 157).

List of Messages That Appear on the Screen

If error messages appear on the screen, try one of the following solutions.

No memory card

- The memory card is not installed in the correct direction. Install the memory card in the correct direction (p. 17).

Memory card locked

- The SD memory card, SDHC memory card or SDXC memory card's write protect tab is set to "LOCK". Unlock the write protect tab (pp. 16, 17).

Cannot record!

- You attempted to shoot an image without a memory card, or with a memory card installed incorrectly. Install the memory card in the correct direction to shoot (p. 17).

Memory card error (p. 51)

- If the same message appears even when a formatted memory card is installed in the correct direction, contact a Canon Customer Support Help Desk (p. 17).

Insufficient space on card

- There is not enough free space on the memory card to shoot (pp. 24, 29, 31, 53, 69, 81, 101) or edit images (pp. 130 – 134). Erase the images (pp. 28, 30, 123) to open space for new images, or insert an empty memory card (pp. 16, 18).

Change the battery pack. (pp. 16, 18)

No Image.

- There are no images recorded on the memory card that can be displayed.

Protected! (p. 120)

Unidentified Image/Incompatible JPEG/Image too large./Cannot play back AVI

- Unsupported images, or images with corrupted data cannot be displayed.
- Images manipulated on a computer, that have had their file name changed, or have been taken with a different camera may not display.

Cannot magnify!/Cannot rotate/Cannot modify image/Cannot register this image!/Cannot modify/Cannot assign to category

- Incompatible images cannot be magnified (p. 116), tagged as favorites (p. 127), rotated (p. 129), edited (pp. 130 – 134), registered to the start-up screen (p. 145), categorized (p. 125), or added to a print list (pp. 138, 140).
- Images manipulated on a computer, that have had their file name changed, or have been taken with a different camera may not be magnified, tagged as favorites, rotated, edited, registered to the start-up screen, categorized, or added to a print list.
- Movies cannot be magnified (p. 116), edited (pp. 130 – 134), added to a print list (p. 138), or registered to the start-up screen (p. 145).

Invalid selection range

- When choosing the selection range (pp. 121, 124, 127), you tried to choose a starting image that was after the last image or you tried to choose an ending image that was before the starting image.

Exceeded selection limit

- You chose more than 998 images in print settings. Choose less than 998 images (p. 140).
- Print settings could not be saved correctly. Reduce the number of selected images and try again (p. 140).
- You chose 501 or more images in Protect (p. 120), Erase (p. 123), My Category (p. 125) and Favorites (p. 127).

Communication error

- Images could not be transferred to the computer or printed due to the large amount of images (approx. 1000) stored on the memory card. Use a commercially available USB card reader to transfer the images. Insert the memory card into the printer's card slot to print.

Naming error!

- The folder or image could not be created because there is an image with the same file name as the folder or image that the camera is attempting to create, or the highest possible file number has already been reached. In the 𝝮 menu, change [File Numbering] to [Auto Reset] (p. 146) or format the memory card (pp. 22, 51).

Lens Error

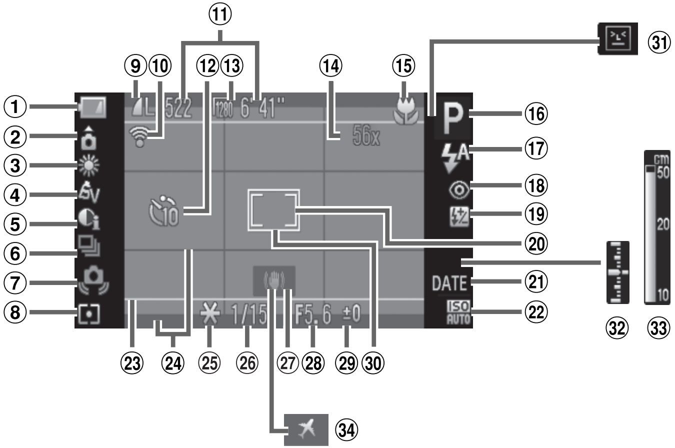
- This error can occur if you hold the lens while it is in motion or when using it in a location with excessive dust or sand in the air.
- If this error message continues to appear, contact a Canon Customer Support Help Desk as there may be a problem with the lens.

A camera error was detected (Error number)

- If an error code appears directly after taking a picture, the shot may not have been recorded. Check the image in Playback mode.
- If this error code reappears, note the Error number (Exx) and contact your Canon Customer Support Help Desk as there may be a problem with the camera.

Information Displayed on the Screen

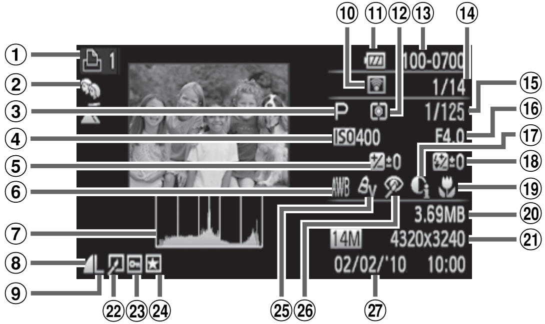
Shooting (Information Display)



① Battery Charge Indicator (p. 15)
② Camera Orientation*
③ White Balance (p. 75)
④ My Colors (p. 77)
⑤ i-Contrast (p. 93)
⑥ Drive Mode (p. 76)
⑦ Camera Shake Warning (pp. 26, 159)
⑧ Metering Methods (p. 86)
⑨ Compression (Image Quality) (p. 72) / Recording Pixels (p. 72)
⑩ Eye-Fi Connection Status (p. 157)
⑪ Still Images: Recordable shots (pp. 18, 73) Movies: Remaining Time/ Elapsed Time (pp. 32, 103)
⑫ Self-Timer (pp. 68, 78, 79)
⑬ Recording Pixels (Movies) (p. 103)
⑭ Digital Zoom Magnification (p. 65) / Digital Tele-converter (p. 66)
⑮ Focus Range (p. 71) / Manual Focus (p. 87)
⑯ Shooting Mode (p. 42)
⑰ Flash Mode (pp. 64, 71, 89)
⑱ Red-Eye Correction (p. 94)
⑲ Flash Exposure Compensation / Flash Output (pp. 95, 96)
⑳ Spot AE Point (p. 86)
㉑ Date Stamp (p. 67)
㉒ ISO Speed (p. 74)
㉓ Image Area: Movies (p. 27)
㉔ Display Overlay (p. 151)
㉕ AE Lock (p. 88) / FE Lock (p. 88)
㉖ Shutter Speed (pp. 90, 92) / Exposure Shift Amount (p. 104)
㉗ Image Stabilizer (p. 152)
㉘ Aperture Value (pp. 91, 92)
㉙ Exposure Compensation (p. 70)
㉚ AF Frame (p. 82)
㉛ Blink Detection (p. 96)
㉜ Exposure Level Indicator (p. 92)
㉝ MF Indicator (p. 87)
㉞ Time Zone (p. 148)

* : Standard / : Held vertically
When shooting, the camera detects if it is held vertically or horizontally, and adjusts settings accordingly for the best shot. It also detects orientation during playback, so you can hold the camera in either orientation and it will automatically rotate images for correct viewing.
This function may not operate correctly when the camera is pointed straight up or down.

Playback (Detailed Information Display)



① Print List (p. 138)
② My Category (p. 125)
③ Shooting Mode (p. 42)
④ ISO Speed (p. 74)
⑤ Exposure Compensation (p. 70) / Exposure Shift Amount (p. 104)
⑥ White Balance (p. 75)
⑦ Histogram (p. 45)
⑧ Compression (Image Quality) (p. 72) / MOV (Movies)
⑨ Recording Pixels (p. 72)
⑩ Eye-Fi Transfer Complete (p. 157)
⑪ Battery Charge Indicator (p. 15)
⑫ Metering Methods (p. 86)
⑬ Folder Number – File Number (p. 146)
⑭ Displayed image number / Total number of images
⑮ Shutter Speed (pp. 90, 92)
⑯ Aperture Value (pp. 91, 92), Image Quality (Movies) (p. 103)
⑰ i-Contrast (pp. 93, 133)
⑱ Flash (pp. 25, 71, 89), Flash Exposure Compensation (p. 95)
⑲ Focus Range (p. 71) / Manual Focus (p. 87)
⑳ File Size (p. 73)
㉑ Still Images: Recording Pixels (p. 72)
Movies: Movie Length (p. 103)
㉒ Image Editing (pp. 130 – 134)
㉓ Protect (p. 120)
㉔ Favorites (p. 127)
㉕ My Colors (pp. 77, 132)
㉖ Red-Eye Correction (pp. 94, 134)
㉗ Shooting Date and Time (p. 19)

Functions Available in Each Shooting Mode

Function		M	Av	Tv	P	AUTO	(Kids & Pets)	(Scene)
Exposure Compensation (p. 70)		—	○	○	○	—	—	○
AE Lock (pp. 88, 104)/FE Lock (p. 88)		—	○	○	○	—	—	—
Program Shift (p. 88)		—	○	○	○	—	—	—
Focusing Range (p. 71)	(Normal)	○	○	○	○	○	○	○
	(Macro)	○	○	○	○	—	—	—
Manual Focus (p. 87)		○	○	○	○	—	—	○
AF Lock (p. 84)		○	○	○	○	—	—	○
Self-Timer (pp. 68, 78, 79)	OFF 10 2	○	○	○	○	○	—	○
	C *2	○	○	○	○	○	—	○
Flash (pp. 64, 71, 89)*3	A	—	—	—	○	○	○	○
	(On)	○	○	○	○	—	—	○
	(Slow Synchro)	—	○	—	○	*4	*4	—
	(Off)	○	○	○	○	○	○	○
Face Selection (p. 85)		○	○	○	○	○	—	○
FUNC. Menu								
Light Metering (p. 86)	(Evaluative)	○	○	○	○	○	○	○
	[ ] (Spot)	○	○	○	○	—	—	—
My Colors (p. 77)	OFF	○	○	○	○	○	○	○
	V N Se BW P L D B G R C	○	○	○	○	—	—	—
White Balance (p. 75)*6	AWB	○	○	○	○	○	○	○
	(Day Light, Cloudy, Tungsten, Fluorescent, Fluorescent H, Custom)	○	○	○	○	—	—	—
ISO Speed (p. 74)	ISO AUTO	—	○	○	○	○	○	○
	ISO 80 ISO 100 ISO 200 ISO 400 ISO 800 ISO 1600	○	○	○	○	—	—	—
Drive Mode (p. 76)	(Single)	○	○	○	○	○	○	○
	(Continuous)	○	○	○	○	—	—	○
	AF *8	○	○	○	○	—	—	○
Recording Pixels (p. 72)/Compression Ratio (Image Quality) (p. 72)		○	○	○	○	○	*9	○
Quality(Movies) (p. 103)		○	○	○	○	○	*12	○

*1 FE Lock not available, Exposure Shift available.
*2 Possible settings: 0 - 30 seconds in [Delay], and 1 - 10 shots in [Shots].
*3 Fixed to (Flash Off) when the flash is lowered, otherwise selectable when the flash is raised.
*4 Slow Synchro set automatically.
*5 Not selectable, but turned on whenever flash is used.

				SCN													
O	O	O	O	O	O	O	O	—	O	O	O	O	O	O	O	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	*1	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
—	—	—	—	—	—	—	—	O	—	—	—	—	—	—	O	—	—
O	O	O	O	—	—	—	O	O	O	O	O	O	O	—	—	O	O
O	O	O	O	—	—	—	O	O	O	O	O	O	O	—	—	O	O
O	O	O	O	—	—	—	O	O	O	O	O	O	O	O	O	O	O
O	O	O	O	—	—	—	O	—	—	—	O	O	O	O	—	—	—
O	O	O	O	O	O	O	O	O	O	O	O	O	O	—	—	—	—
O	O	O	O	O	O	O	—	O	O	O	O	O	O	—	O	—	—
*5	*5	—	—	—	—	—	—	—	—	—	—	—	—	—	O	—	—
O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
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FUNC. Menu																	
O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	O	O	—
O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
—	—	—	—	—	—	—	O	—	—	—	—	—	—	—	*7	O	—
O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
O	O	O	O	—	—	—	O	O	O	O	O	O	O	O	O	O	O
O	O	O	O	—	—	—	O	O	O	O	O	O	O	O	—	—	—
O	O	O	O	—	—	—	O	O	O	O	O	O	O	O	—	—	—
O	O	O	O	O	O	O	*10	O	O	O	O	O	O	O	*11	—	—
O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O

*6 White Balance not selectable in , . *7 White Balance data not recordable.

*8 MF and set to . *9 Fixed to L and . *10 Recording pixels are fixed to M.

*11 Unavailable when set to . *12 Fixed at .

O Selectable, or set automatically. — Not selectable

Menus

Shooting Menu

Function			M	Av	Tv	P	AUTO		
AF Frame (p. 82)	Face Detect		○	○	○	○	*1	*1	○
	Center		○	○	○	○	—	—	○
AF Frame Size (p. 83)	Normal/Small		○	○	○	○	—	—	—
Digital Zoom (pp. 65, 66)	Standard		○	○	○	○	○	○	○
	Off		○	○	○	○	○	—	○
	Digital Tele-converter (1.7x/2.1x)		○	○	○	○	○	—	○
AF-Point Zoom (p. 83)	On/Off		○	○	○	○	○	—	○
Servo AF (p. 84)	On/Off		○	○	○	○	*2	—	○
Continuous AF (p. 149)	On/Off		○	○	○	○	*3	*3	○
AF-assist Beam (p. 150)	On/Off		○	○	○	○	○	*3	○
MF-Point Zoom (p. 87)	On/Off		○	○	○	○	—	—	○
Safety MF (p. 87)	On/Off		○	○	○	○	—	—	○
Flash Settings (pp. 94, 95, 96, 150)	Flash Mode	Auto	—	○	○	○	○	○	○
		Manual	○	○	○	—	—	—	—
	Flash Exp.Comp	–2 – +2	—	○	○	○	—	—	—
	Flash Output	Minimum/ Medium/ Maximum	○	○	○	—	—	—	—
	Red-Eye Corr.	On/Off	○	○	○	○	○	—	○
	Red-Eye Lamp	On/Off	○	○	○	○	○	*3	○
	Safety FE	On/Off	—	○	○	○	*3	*3	*3
i-Contrast (p. 93)	Auto/Off		○	○	○	○	*4	*4	—
Safety Shift (p. 91)	On/Off		—	○	○	—	—	—	—
Review (p. 150)	Off/2 – 10 sec./Hold		○	○	○	○	○	*5	○
Review Info (p. 151)	Off/Detailed/Focus Check		○	○	○	○	○	—	○
Blink Detection (p. 96)	On/Off		○	○	○	○	○	—	○
Disp. Overlay (p. 151)	Off/Grid Lines		○	○	○	○	○	—	○
	3:2 Guide/Both		○	○	○	○	○	—	○
IS Mode (p. 152)	Continuous/Off/Dynamic		○	○	○	○	*6	*6	○
	Shoot Only/Panning		○	○	○	○	—	—	○
Date Stamp (p. 67)	Off/Date/Date & Time		○	○	○	○	○	—	○
Set Movie button (p. 153)			○	○	○	○	○	—	○

*1 9 points when a face is not detected. *2 [On] when movement is detected. *3 Fixed to [On]. *4 Fixed to [Auto]. *5 Fixed to 2 sec. *6 Still images: Fixed to [Continuous], but changes to [Dynamic] when movie button is pressed.

				SCN													
○	○	○	○	○	○	○	*1	○	—	—	○	○	○	—	—	—	—
○	○	○	○	—	—	—	—	○	○	—	○	○	○	○	○	○	○
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
○	○	○	○	○	○	○	—	—	—	—	○	○	○	○	—	○	—
○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
○	○	○	○	○	○	○	—	—	—	—	○	○	○	○	—	—	—
○	○	○	○	○	○	○	○	○	—	—	○	○	○	—	—	—	—
○	○	○	○	—	—	—	○	○	—	—	○	○	○	—	—	—	—
○	○	—	○	*3	*3	*3	—	○	○	○	○	○	○	—	○	*3	*3
○	○	○	○	*3	○	○	○	○	○	○	○	○	○	—	○	○	○
○	○	○	○	—	—	—	○	○	—	—	○	○	○	—	—	—	—
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○	○	○	○	○	○	○	○	○	○	○	○	○	○	—	○	—	—
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—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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○	○	○	○	○	○	○	○	○	○	○	○	○	○	—	○	—	—
*3	*3	*3	*3	*3	*3	*3	*3	*3	*3	*3	*3	*3	*3	—	*3	—	—
—	—	—	—	—	—	—	*4	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	—	—
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○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	—	—	—
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○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	—	—
○	○	○	○	○	○	○	—	○	○	○	○	○	○	○	—	—	—
○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

○ Selectable, or set automatically. — Not selectable

🔧 Set up Menu

Item	Options/Summary	Ref. Page
Mute	On/Off*	p. 48
Volume	Set all operation sounds (5 levels).	p. 48
Sound Options	Set the sounds for each camera operation.	p. 144
Hints & Tips	On*/Off	p. 144
LCD Brightness	Set within a range of ±2.	p. 49
Start-up Image	Add an image as start-up image.	p. 145
Format	Formats memory card, erasing all data	pp. 22, 51
File Numbering	Continuous*/Auto Reset	p. 146
Create Folder	Monthly*/Daily	p. 146
Lens Retract	1 min.*/0 sec.	p. 147
Power Saving	Auto Power Down: On*/Off Display Off: 10, 20 or 30 sec./1*, 2 or 3 min.	p. 147
Time Zone	Home/World	p. 148
Date/Time	Date and time settings	p. 20
Distance Units	m/cm* / ft/in	p. 149
Video System	NTSC / PAL	p. 117
Eye-Fi Settings	Eye-Fi connection settings (only appears when Eye-Fi card is inserted)	p. 157
Language	Choose display language.	p. 21
Reset All	Returns camera to default settings.	p. 50

* Default setting

▶ Playback Menu

Item	Options/Summary	Ref. Page
Slideshow	Plays back images automatically.	p. 113
Erase	Erases images.	p. 123
Protect	Protects images.	p. 120
Rotate	Rotates images.	p. 129
Favorites	Tag or untag images as favorites.	p. 127
My Category	Categorizes images.	p. 125
i-Contrast	Corrects dark portions and contrast in still images.	p. 133
Red-Eye Correction	Corrects red eyes in still images.	p. 134
Trimming	Trims portions of still images.	p. 131
Resize	Resizes and saves still images.	p. 130
My Colors	Adjusts colors in still images.	p. 132
Scroll Display	On*/Off	p. 111
Resume	Last seen*/Last shot	p. 154
Transition	Fade*/Scroll/Slide/Off	p. 116

* Default setting

Print Menu

Item	Options/Summary	Ref. Page
Print	Displays printing screen.	—
Select Images & Qty.	Chooses individual images for printing.	p. 141
Select Range	Chooses starting and ending images for printing.	p. 142
Select All Images	Chooses all images for printing.	p. 142
Clear All Selections	Cancels all settings for printing.	p. 142
Print Settings	Sets the printing style.	p. 140

Handling Precautions

- This camera is a high-precision electronic device. Do not drop it or subject it to strong impacts.
- Never place the camera close to magnets, motors or other devices that generate strong electromagnetic fields. Exposure to strong magnetic fields may cause malfunctions or corrupt image data.
- If water droplets have fallen onto, or dirt is stuck on the camera or screen, wipe with a dry soft cloth or eyeglass wiper. Do not rub or apply force.
- Never use cleaners containing organic solvents to wipe the camera or screen.
- Use a commercially available blower brush to remove dust from the lens. For stubborn dirt contact the closest Canon Customer Support Help Desk as listed on the customer support leaflet supplied with your camera.
- When you move the camera rapidly from cold to hot temperatures, condensation may form on the internal or external surfaces of the camera. To avoid condensation, put the camera in an airtight, resealable plastic bag and let it adjust to temperature changes slowly before removing it from the bag.
- If condensation has formed, stop using the camera immediately. Continued use may damage the camera. Remove the battery and memory card, and wait until the moisture has completely evaporated before resuming use.

Specifications

Camera Effective Pixels	Approx. 14.1 million
Image Sensor	1/2.3-inch type CCD (Total number of pixels: Approx. 14.5 million)
Lens	5.0 (W) – 70.0 (T) mm 35mm film equivalent: 28 (W) – 392 (T) mm f/3.1 (W) – f/5.9 (T)
Zoom Magnification	Approx. 14x (Up to approx. 56x in combination with the digital zoom)
LCD Monitor	3.0-inch type TFT LCD color monitor Approx. 230,000 dots, Picture coverage approx. 100%
AF Frame Mode	Face Detect/Center
Servo AF	On/Off
Focusing Range (from end of lens)	Auto, Easy, Normal: 5 cm (2.0 in.) – infinity (W)/1 m (3.3 ft.) – infinity (T) Macro: 5 – 50 cm (2.0 in. – 1.6 ft.) (W) Manual Focus: 5 cm (2.0 in.) – infinity (W)/1 m (3.3 ft.) – infinity (T) Kids&Pets: 1 m (3.3 ft.) – infinity (W)/3 m (9.8 ft.) – infinity (T)
Shutter	Mechanical shutter and electronic shutter used together
Shutter Speed	1 – 1/3200 sec. 15 – 1/3200 sec. (Total shutter speed range)
Image Stabilization	Lens-shift type
Metering System	Evaluative, Center-weighted average or Spot
Exposure Compensation	±2 stops in 1/3-stop increments
ISO speed (Standard Output Sensitivity, Recommended Exposure Index)	Auto, ISO 80/100/200/400/800/1600
White Balance	Auto, Day Light, Cloudy, Tungsten, Fluorescent, Fluorescent H, Custom
Built-in Flash	Auto, on, Slow Synchro, off * Flash exposure compensation/Flash output/Red-eye reduction/Red-eye correction/FE lock/Safety FE settings available
Built-in Flash Range	75 cm – 3.5 m (W), 1.0 – 2.0 m (T) (2.5 – 11.5 ft. (W), 3.3 – 6.6 ft. (T))
Shooting Modes	M, Av, Tv, P, Auto, Easy, Portrait, Landscape, Night Snapshot, Kids&Pets, Indoor, SCN, Movie SCN Mode: Smart Shutter (Smile, Wink Self-Timer, FaceSelf-Timer, Low Light, Color Accent, Color Swap, Fish-eye Effect, Miniature Effect, Beach, Foliage, Snow, Fireworks, Stitch Assist Movie Mode: Standard / Color Accent / Color Swap
Continuous Shooting	Continuous: Approx. 0.7 images/sec. (Low Light: 2.6 images/sec.) Continuous Shooting AF: Approx. 0.5 images/sec. Continuous Shooting LV: Approx. 0.5 images/sec.

Self-timer..............................Approx. 10-sec./Approx. 2-sec. delay, Custom Timer
i-Contrast ....Auto/Off
Recording Media.................. SD memory card, SDHC memory card, SDXC memory card, MultiMediaCard, MMCplus memory card, HC MMCplus memory card
File Format............................Design rule for Camera File system and DPOF compliant (version 1.1)
Data Type ....Still images: Exif 2.2 (JPEG)
Movies: MOV (Image data: H.264, Audio data: Linear PCM) (Stereo)
Number of Recording Pixels
(Still images)....Large: 4320 x 3240 pixels
Medium 1: 3456 x 2592 pixels
Medium 2: 2592 x 1944 pixels
Medium 3: 1600 x 1200 pixels
Small: 640 x 480 pixels
Widescreen: 4320 x 2432 pixels
(Movies)............1280 x 720 pixels (30 frames/sec.)
640 x 480 pixels (30 frames/sec.)
320 x 240 pixels (30 frames/sec.)
* Actual frame rate is 29.97 frames/sec.
Compression (Still images) ....Fine, Normal
Number of Possible Shots
(CIPA compliant)..................Approx. 260 images
Playback Function.................Single Image, Movie, Magnified Focus, Index, Magnified, Filtered Playback, Slideshow, Scroll Display, Smart Shuffle
Editing Function ....Erase, Protect, My Category, Favorites, Resize, My Colors, iContrast, Trimming, Rotate, Red-Eye Correction
Direct Print Type ....PictBridge capable
Interface ....Digital input/output: Hi-Speed USB (mini-B compatible)*
HDMI (HDMI mini connector)
Analog audio output: Stereo*
Analog video output: NTSC/PAL selectable*
* Dedicated connector (female) with unified type of digital, audio/video
Communication Settings ......MTP, PTP
Power...................................Battery Pack NB-5L (rechargeable lithium-ion battery)
AC Adapter Kit ACK-DC30
Operating Temperatures......0 – 40 °C (32 – 104 °F)
Operating Humidity ....10 – 90%
Dimensions
(CIPA compliant)..................105.8 x 59.3 x 31.9 mm (4.17 x 2.33 x 1.26 in.)
Weight
(CIPA compliant)..................Approx. 215 g (7.58 oz.) (Including the battery and memory card)
Approx. 188 g (6.63 oz.) (Camera body only)

Battery Pack NB-5L

Type.....................................Rechargeable lithium-ion battery
Voltage.................................3.7 V DC
Capacity...............................1120 mAh
Charging cycles ....Approx. 300 times
Operating temperature.........0 – 40 °C (32 – 104 °F)
Dimensions..........................32.0 x 44.9 x 7.9 mm (1.26 x 1.77 x 0.31 in.)
Weight..................................Approx. 25 g (0.88 oz.)

Battery Charger CB-2LX/CB-2LXE

Rated input ....100 – 240 V AC (50/60 Hz), 0.085 A (100 V) – 0.05 A (240 V)
Rated output ....4.2 V DC, 0.7 A
Charge time ....Approx. 2 hours 5 min.
Operating temperature.........0 – 40 °C (32 – 104 °F)
Dimensions..........................57.5 x 81.6 x 21.0 mm (2.26 x 3.21 x 0.83 in.)
Weight..................................Approx. 65 g (2.29 oz.) (CB-2LX)
Approx. 59 g (2.08 oz.) (CB-2LXE) (excluding power cord)

- All data is based on tests by Canon.
- Camera specifications or appearance are subject to change without notice.

Index

P

R

S

T

V

W

Z

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